

# **EXHIBIT 6**

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1 UNITED STATES DISTRICT COURT  
1 SOUTHERN DISTRICT OF NEW YORK

2 -----x

3 IN RE: METHYL TERTIARY BUTYL  
3 ETHER ("MTBE") PRODUCTS  
4 LIABILITY LITIGATION

00 MDL 1358  
Master File C.A.  
No. 1:00-1898 (SAS)  
04CV4973 (SAS)

5 -----x

January 11, 2013  
12:43 p.m.

7 Before:

8 HON. SHIRA A. SCHEINDLIN,

District Judge

10 APPEARANCES

11 MILLER, AXLINE & SAWYER  
12 Plaintiffs City of Fresno  
12 BY: TRACEY O'REILLY

13 McDERMOTT, WILL & EMERY  
14 Attorneys for Defendants Exxon Mobil Corp.  
14 and defendants' liaison counsel  
15 BY: JAMES PARDO  
15 STEPHEN J. RICCARDULLI

16 SEDGWICK, LLP  
17 Attorneys for Defendants Shell Oil Co.;  
17 Texaco Refining and Marketing, Inc.;  
18 Chevron U.S.A. Inc.; Motiva Enterprises;  
18 Equilon Enterprises, LLC  
19 BY: PETER C. CONDRON

20 BRACEWELL & GIULIANI  
20 Attorneys for Defendants Ultramar, Inc.;  
21 Valero Marketing and Supply Company [DOE 1]  
21 BY: COY M. CONNELLY

22 SHEPPARD, MULLIN, RICHTER & HAMPTON, LLP  
23 Attorneys Defendant for Exxon Mobil Corp.  
23 BY: JEFFREY J. PARKER

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APPEARANCES CONTINUED

SIDLEY AUSTIN, LLP

Attorneys for Defendants Duke Energy Merchants, LLC;  
Duke Energy Trading and marketing, LLC;  
Northridge Petroleum Marketing U.S., Inc.;  
Duke Energy Merchants California

BY: JIM WEDEKING

KING & SPALDING

Attorney for Defendants Chevron

BY: CHARLES C. CORRELL, JR.

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1 (In open court)  
2 (Case called)  
3 THE COURT: Good afternoon, Miss O'Reilly.  
4 MS. O'REILLY: Good afternoon, your Honor.  
5 THE COURT: And Mr. Pardo.  
6 MR. PARDO: Good afternoon, your Honor.  
7 THE COURT: Mr. Riccardulli.  
8 MR. RICCARDULLI: Good afternoon.  
9 THE COURT: And Mr. Wedderling, is it?  
10 MR. WEDEKING: Wedeking, your Honor.  
11 THE COURT: Can you spell that?  
12 MR. WEDEKING: W-e-d-e-k-i-n-g.  
13 THE COURT: Wedeking. Mr. Parker.  
14 MR. PARKER: Good afternoon, your Honor.  
15 THE COURT: Mr. Correll.  
16 MR. CORRELL: Good afternoon, Judge.  
17 THE COURT: Mr. Condron.  
18 MR. CONDRON: Good afternoon, your Honor.  
19 THE COURT: Mr. Connolly.  
20 MR. CONNELLY: Yes, your Honor.  
21 THE COURT: All right. I think everything that we're  
22 going to talk about today has to do with the City of Fresno  
23 case, right?  
24 MS. O'REILLY: That's correct.  
25 THE COURT: It's a one-case conference. That said, I  
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1 prove that their product got to a particular station, like -- I  
2 shouldn't use that, but --

3 MS. O'REILLY: We --

4 THE COURT: Well, no, I can't use that.

5 MS. O'REILLY: We said to Van Ness, if you look on

6 Page --

7 THE COURT: Van Ness? I thought Van Ness was one of  
8 the problem ones because Chevron had an exclusive supply  
9 agreement, and so Duke's material couldn't have been there.

10 MS. O'REILLY: It says Duke -- on Page 3 of our  
11 letter, it says: Duke Energy mixed several gas station sites,  
12 received delivery, deliveries of MTBE gasoline from jobbers to  
13 whom Duke Energy sold MTBE gasoline.

14 And what the evidence will show is that while there's  
15 sometimes an exclusive agreement, also sometimes jobbers  
16 supply, and they can do it when there's short supply or low  
17 supply. It's a product tracing issue, and we feel that we have  
18 sufficient evidence, and we're happy to let them test that.

19 THE COURT: It shouldn't be tested. If you've got the  
20 evidence that can show it to them, like the last topic, provide  
21 the evidence of product tracing because they already know my  
22 ruling after that. If you can get it to the station, I at  
23 least don't believe that they have to show it's their -- you to  
24 show it's their molecule versus somebody else's molecule. If  
25 it's mixed and blended right there in the station and the

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1 material is actually pumped and used and spilled, then that's  
2 that.

3 So it really is a matter -- If she has evidence that  
4 your product ended up at a particular station, there's no  
5 summary judgment.

6 MR. WEDEKING: We agree, your Honor. We don't believe  
7 they have any evidence showing that Duke's product actually  
8 went to any of these particular stations. They can show that  
9 Duke sold to a jobber, jobbers bought from many suppliers,  
10 delivered to many gas stations, a gas station bought from  
11 several jobbers.

12 They have a theoretical possibility that Duke's  
13 gasoline reached one of these stations, but a theoretical  
14 possibility is not enough to defeat a summary judgment motion.  
15 It would be very easy for Fresno to track Duke's product. When  
16 Duke sells gasoline at the rack, it creates a bill of lading  
17 showing which jobber purchased Duke's gasoline.

18 THE COURT: Yes, and she's got it to the jobber. Then  
19 the jobber goes to the station.

20 MR. WEDEKING: We have not seen any of this evidence  
21 from the City of Fresno.

22 THE COURT: Then take it to the next step.

23 MR. WEDEKING: That's correct.

24 THE COURT: In other words, she has proof of what  
25 jobber it was sold to, but then she doesn't have to deliver it.

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1 MR. WEDEKING: That's correct, your Honor.

2 THE COURT: Do you have it or not? Can you trace it  
3 to the station, Miss O'Reilly?

4 MS. O'REILLY: Your Honor, there are multiple methods,  
5 and what he's describing is a very discrete, direct,  
6 one-to-one-to-one paper trail.

7 THE COURT: No. He's just saying -- well, yes, on the  
8 jobber's delivery, not of his material. He's saying you get it  
9 to the jobber. That's interesting. Now, can you get that  
10 jobber to make a delivery to any of these stations, without  
11 worrying what's in that delivery, but did that jobber deliver?

12 MS. O'REILLY: I don't know -- The evidence of product  
13 delivery is voluminous; so I can't tell you off the top of my  
14 head what exactly paper trail we have. What we've done in  
15 other cases, we don't always have every bill of lading for  
16 every delivery to every station because sometimes those records  
17 are destroyed, jobbers go out of business.

18 But we have evidence of testimony from gas station  
19 owner. What we did in Merced, for example, if a gas station  
20 owner/operator says I bought from X jobber on these years,  
21 multiple times in a week. We have the jobber testifying, I  
22 delivered to this station multiple times a week; I picked up my  
23 gasoline at this terminal from this supplier.

24 THE COURT: That sounds good to me. It seems like,  
25 Mr --

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1 MR. WEDEKING: Wedeking, your Honor.

2 THE COURT: -- Wedeking -- well, if you'd written it  
3 in the first place, I'd be able to say it -- doesn't really  
4 understand what your proof is until you lay it out to him. But  
5 let's go to some of these, a couple of these specifics.  
6 Two-layer Exxon Beacon No. 3519 and Beacon No. 615. They say  
7 that you only allege that Duke sold MTBE to these sites after  
8 they removed their tanks.

9 MS. O'REILLY: Your Honor, with respect to those  
10 stations, we make the point -- and I think that claim of they  
11 removed their tanks is disingenuous because in California many  
12 stations removed their tanks and replaced them.

13 THE COURT: Yeah, but they're saying one -- I thought  
14 they said --

15 MS. O'REILLY: There's one station, Cary Oil, where we  
16 agree that they didn't replace their tanks.

17 THE COURT: That's right. I thought there was others  
18 about after the replacement, there's no proof of delivery.

19 MS. O'REILLY: If you look on Page 3 of our brief, we  
20 ship to Exxon and several of the Beacons, that those  
21 stations -- if you look right there, it says that the tanks  
22 were removed and replaced. And it says Duke's claims for these  
23 three sites are based on the unsupported assumption that  
24 releases only occurred before the date of tank removal. Unlike  
25 the Smith Tank Lines, Cary Oil sites, however, these three

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1 sites had new tanks installed and then continued operating as  
2 gas stations. That's on Page 3.

3 THE COURT: That's too much material. I'm not going  
4 there. Anyway, I'm looking at my summary notes. One second.

5 MS. O'REILLY: Okay.

6 THE COURT: Okay. Here's one. In the reply letter of  
7 Duke, they talk about a case where you say there might have  
8 been MTB detection after the new tanks were installed. If  
9 that's it, that's not good enough, that "there might have been  
10 a detection after." There either was or there wasn't after the  
11 new tanks were installed.

12 And they say, to be more specific, that your expert,  
13 Mr. Norman, never identified a release at these particular  
14 stations after the 1998 and 1999 tanks were removed.

15 MS. O'REILLY: Mr. Norman is not our release expert.  
16 Mr. Marcel Moreau is our release expert.

17 THE COURT: Did he identify a release at those  
18 stations after the tank removals of '98 and '99?

19 MR. WEDEKING: I will assert, your Honor, that he did  
20 not.

21 THE COURT: Okay. If he did not, then it doesn't  
22 matter what you have after the new tanks are installed because  
23 you don't have a release. So whether they were or not is kind  
24 of irrelevant. I am telling you that it may reach the point  
25 where the years of patience runs out.

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1           If you make me look at motions which you can't win,  
2   then I'm going to sanction somebody because the sanction is  
3   basically saying enough is enough. My time is too valuable.  
4   If you know you don't have a case of a particular site against  
5   particular defendant, let the defendant out. So I've given  
6   what guidance I can here on this Duke issue. This one  
7   defendant. It's been very specific, and I think we've  
8   discussed now, we've clarified the product tracing and the  
9   commingling.

10          I've agreed with you, Miss O'Reilly, to some extent.  
11   If you can get it to the station and there's a release, he  
12   doesn't have to prove whose molecule caused that. Now, he  
13   knows that, don't bother moving. I'm telling you that.  
14   They're saying they can't get my stuff to the station, where  
15   there's a release, and if you can prove that, you win the  
16   summary judgment.

17          So I'm going to ask you again to be on this slow  
18   motion schedule that we just worked out for the nuisance issue.  
19   Do the same thing for this with respect to Duke. Figure out  
20   what proof you have, meet and confer, and then you'll brief it.  
21   All right?

22          MS. O'REILLY: Thank you, your Honor.

23          THE COURT: Now, I've put off until last the statute  
24   of limitations because this is just a lot of work, too. And  
25   again, I sense no flexibility here, but let's start with the

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# **EXHIBIT 7**

Marcel G. Moreau

Page 1

UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF NEW YORK

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In Re: Methyl Tertiary Butyl  
Ether ("MTBE") MDL NO. 1358 (SAS)  
Products Liability Litigation

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This Document Relates To:  
City of Fresno v. Chevron U.S.A., Inc., et al.,  
Case No. 04 Civ 4973 (SAS)

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VIDEOTAPED DEPOSITION OF MARCEL G. MOREAU

VOLUME I

April 4, 2012

Deposition of Marcel G. Moreau,  
Volume I, Plaintiff City of Fresno's designated  
Expert Witness, on April 4, 2012, held at the  
Marriott at Sable Oaks, 200 Sable Oaks Drive,  
South Portland, Maine, beginning at 9:06 a.m.,  
before Maryellen Coughlin, RPR/CRR.

Marcel G. Moreau

Page 2	Page 4
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Page 3	Page 5
<p>1 FURTHER APPEARANCES:</p> <p>2</p> <p>3 FOR CHEVRON U.S.A.:</p> <p>4 BY: JEREMIAH J. ANDERSON, ESQ.</p> <p>5 KING &amp; SPALDING</p> <p>6 1100 Louisiana, Suite 4000</p> <p>7 Houston, Texas 77002</p> <p>8 (713) 276-7417</p> <p>9 jjanderson@kslaw.com</p> <p>10</p> <p>11 FOR LYONDELL CHEMICAL COMPANY:</p> <p>12 BY: JOHN J. DiCHELLO, JR., ESQ.</p> <p>13 BLANK ROME, LLP</p> <p>14 One Logan Square</p> <p>15 130 N. 18th Street</p> <p>16 Philadelphia, Pennsylvania 19103-6998</p> <p>17 (215) 569-5390</p> <p>18 DiChello@BlankRome.com</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p>1 FURTHER APPEARANCES:</p> <p>2</p> <p>3 FOR KERN OIL (Via phone):</p> <p>4 BY: BRIAN M. LEDGER, ESQ.</p> <p>5 GORDON &amp; REES, LLP</p> <p>6 101 West Broadway, Suite 2000</p> <p>7 San Diego, California 92101</p> <p>8 (616) 696-6700</p> <p>9 bledger@gordonrees.com</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>

2 (Pages 2 to 5)

Marcel G. Moreau

Page 6	Page 8
<p>1 I N D E X</p> <p>2</p> <p>3 WITNESS: MARCEL G. MOREAU</p> <p>4</p> <p>5 EXAMINATION: Page</p> <p>6 BY MR. STACK 8</p> <p>7</p> <p>8</p> <p>9 EXHIBITS FOR IDENTIFICATION:</p> <p>10 No. Description Page</p> <p>11 1 Curriculum Vitae of 26</p> <p>12 Marcel G. Moreau</p> <p>13 (PEXP-FRESNO-MOREAU-000008 - 24)</p> <p>14 2 Site plan for Chevron 30</p> <p>15 Station 9-4374</p> <p>16 3 Summary pages 18 and 19 of 43 for 32</p> <p>17 Exxon, 4594 East Tulare, Fresno</p> <p>18 4 Expert of Marcel Moreau City of 66</p> <p>19 Fresno vs. Chevron U.S.A Inc.,</p> <p>20 Et al</p> <p>21 5 Expert Rebuttal Report of Marcel 66</p> <p>22 Moreau City of Fresno vs. Chevron</p> <p>23 U.S.A. Inc., et al</p> <p>24 6 Expert Site Specific Report of 163</p> <p>25 Marcel Moreau</p>	<p>1 MR. PEREZ: Ed Perez with Bracewell</p> <p>2 &amp; Giuliani for the Valero defendants.</p> <p>3 MS. RADOVICH: Joan Radovich with</p> <p>4 Eimer Stahl, LLC for Citgo Petroleum Corporation.</p> <p>5 THE VIDEOGRAPHER: Anyone else on</p> <p>6 the phone?</p> <p>7 The court reporter is Maryellen</p> <p>8 Coughlin and will now swear in the witness.</p> <p>9</p> <p>10 MARCEL G. MOREAU,</p> <p>11 having been first duly sworn, was examined</p> <p>12 and testified as follows:</p> <p>13</p> <p>14 EXAMINATION</p> <p>15 BY MR. STACK:</p> <p>16 Q. Please state your name for the</p> <p>17 record?</p> <p>18 A. Marcel Gilbert Moreau.</p> <p>19 Q. And what is your business address</p> <p>20 for purposes of this litigation?</p> <p>21 A. 73 Bell Street in Portland, Maine</p> <p>22 04103.</p> <p>23 Q. With regard to the work that you</p> <p>24 performed in this case, did you perform it</p> <p>25 through a business entity like a corporation or</p>
Page 7	Page 9
<p>1 P R O C E E D I N G S</p> <p>2</p> <p>3 THE VIDEOGRAPHER: We are now on</p> <p>4 the record. My name is Wesley Hicks. I'm a</p> <p>5 videographer for Golkow Technologies. Today's</p> <p>6 date is April 4th, 2012, and the time is 9:06</p> <p>7 a.m.</p> <p>8 This video deposition is being held</p> <p>9 in Portland, Maine in the matter -- in re: MTBE</p> <p>10 Products Liability Litigation in the matter of</p> <p>11 City of Fresno versus Chevron U.S.A., Inc.,</p> <p>12 et al., Case No. 04 CIV 4973 (SAS) for the United</p> <p>13 States District Court, Southern District of New</p> <p>14 York. The deponent is Marcel G. Moreau. Counsel</p> <p>15 please voice identify yourselves.</p> <p>16 MS. O'REILLY: Tracey O'Reilly,</p> <p>17 Miller Axline &amp; Sawyer for plaintiff City of</p> <p>18 Fresno and the witness.</p> <p>19 MR. ANDERSON: Jeremiah Anderson</p> <p>20 for the Chevron and Unocal defendants.</p> <p>21 MR. DiCHELLO: John DiChello of</p> <p>22 Blank Rome for Lydonell Chemical Company.</p> <p>23 MR. STACK: William Stack for Exxon</p> <p>24 Mobil.</p> <p>25 THE VIDEOGRAPHER: On the phone?</p>	<p>1 other business form? Do you have a company?</p> <p>2 A. Yes, I do.</p> <p>3 Q. What is the company?</p> <p>4 A. Marcel Moreau Associates.</p> <p>5 Q. And with regard to that company,</p> <p>6 how many employees do you currently have?</p> <p>7 A. Counting myself, there's two of us.</p> <p>8 Q. And with respect to the work that</p> <p>9 you performed in this case, did you at any time</p> <p>10 retain the services of a subcontractor to assist</p> <p>11 you in performing your work?</p> <p>12 A. I believe we did.</p> <p>13 Q. And with regard to your</p> <p>14 subcontractor, who was the subcontractor that you</p> <p>15 retained?</p> <p>16 A. Christina Ferland.</p> <p>17 Q. And this individual worked for you</p> <p>18 performing what tasks?</p> <p>19 A. As best I can recall, she was</p> <p>20 involved in some cases in the initial review of</p> <p>21 documents that were produced, and in a number of</p> <p>22 instances, she produced a draft of the -- I guess</p> <p>23 the facilities summary is what we've called it</p> <p>24 historically for the individual facilities in</p> <p>25 this case.</p>

3 (Pages 6 to 9)

Marcel G. Moreau

Page 186	Page 188
<p>1 A. I don't have any record specific to</p> <p>2 a spill bucket, and I don't see any permit</p> <p>3 applications. A permit would have been required</p> <p>4 if the work was done. I don't know exactly when</p> <p>5 that would have started. Sometime in the early</p> <p>6 '90s, if not sooner. So the available evidence</p> <p>7 indicates or doesn't indicate that a spill bucket</p> <p>8 was added to this facility in the 1990 time frame</p> <p>9 or any time in the 1990's.</p> <p>10 Q. So there is soil contamination in</p> <p>11 the vicinity of the tank area, and the precise</p> <p>12 cause of that contamination cannot be identified</p> <p>13 because of the lack of documentation in the</p> <p>14 records as they exist today?</p> <p>15 MS. O'REILLY: Vague and ambiguous.</p> <p>16 Go ahead.</p> <p>17 A. As far as the records that I have</p> <p>18 reviewed, there are no records that point to</p> <p>19 specific releases associated with what I would</p> <p>20 call the tank area. There is contaminated soil,</p> <p>21 so something happened in the area. The records</p> <p>22 of what those events might be are not present in</p> <p>23 the record.</p> <p>24 Q. With regard to the piping and</p> <p>25 dispenser area releases, there is a reference to</p>	<p>1 formed in this case, is it your opinion that a</p> <p>2 leak into the environment occurred after 1998</p> <p>3 from the containment sumps in the vicinity of the</p> <p>4 dispenser area?</p> <p>5 A. We don't have any post '98 soil</p> <p>6 sampling results from underneath the dispensers.</p> <p>7 So we have identified some instances when there</p> <p>8 were releases from within the dispenser cabinet.</p> <p>9 I'm not able to establish whether those releases</p> <p>10 were successfully contained or whether they made</p> <p>11 it into the environment.</p> <p>12 Q. For the period prior to 1998, do</p> <p>13 you have any maintenance records indicating that</p> <p>14 maintenance was performed and leaks were observed</p> <p>15 at the dispensers at the Red Triangle facility?</p> <p>16 MS. O'REILLY: Asked and answered.</p> <p>17 A. This was leaks in dispensers and</p> <p>18 piping?</p> <p>19 Q. It's for the period 19 -- prior to</p> <p>20 1998, do you have any records indicating that</p> <p>21 maintenance was performed and leaks were observed</p> <p>22 at the dispensers at the Red Triangle facility?</p> <p>23 A. Yes.</p> <p>24 Q. And what records do you have?</p> <p>25 A. If we look at the document listing,</p>
Page 187	Page 189
<p>1 an inspection in August of 2000 where evidence of</p> <p>2 fuel releases were found in the dispenser</p> <p>3 containment sumps with an active leak in one</p> <p>4 dispenser.</p> <p>5 Are the dispenser containment sumps</p> <p>6 referred to on Page 5 of 6 of your report for the</p> <p>7 Red Triangle facility under pan -- pardon me --</p> <p>8 under dispenser pans which contain leaks from the</p> <p>9 dispensers and prevent them from entering the</p> <p>10 environment?</p> <p>11 MS. O'REILLY: Assumes facts, lacks</p> <p>12 foundation. Go ahead.</p> <p>13 A. The purpose of a dispenser pan is</p> <p>14 to capture releases from the -- any of the</p> <p>15 dispenser components above the dispenser pan.</p> <p>16 It's not uncommon for dispenser pans to not be</p> <p>17 liquid tight, even though that's what they're</p> <p>18 suppose to do. In cases such as this, I would</p> <p>19 look for testing records that would establish the</p> <p>20 integrity of the dispenser pan. In this</p> <p>21 particular case, we were not able to find or we</p> <p>22 did not have any testing records for the</p> <p>23 containment sump, so we don't know whether that</p> <p>24 sump was liquid tight or not.</p> <p>25 Q. With regard to the opinions you've</p>	<p>1 Page 11 of 22, the bottom entry.</p> <p>2 Q. I'm with you.</p> <p>3 A. There's an indication that there</p> <p>4 was a leak in a union at a sump found as well as</p> <p>5 the plug above the impact valve, the bottom</p> <p>6 language.</p> <p>7 Q. And this is in August of 1998?</p> <p>8 A. I have it as June of '98.</p> <p>9 Q. Okay.</p> <p>10 A. Wait a minute. Wait a minute.</p> <p>11 Yeah, the general entry is June of '98, but the</p> <p>12 specific reference appears to be an August '98</p> <p>13 event.</p> <p>14 Q. And the August '98 event that's</p> <p>15 described is for a release of diesel product; am</p> <p>16 I correct?</p> <p>17 A. That specific incident was for</p> <p>18 diesel, that's correct.</p> <p>19 Q. Are there any records of</p> <p>20 maintenance having occurred at the facility prior</p> <p>21 to 19 -- in or prior to 1998 which indicated that</p> <p>22 leaks were observed in the dispensers with</p> <p>23 gasoline being the product released?</p> <p>24 MS. O'REILLY: Asked and answered.</p> <p>25 A. For the period 1998 and before,</p>

48 (Pages 186 to 189)

Marcel G. Moreau

Page 198	Page 200
<p>1 Q. Is there any evidence to indicate</p> <p>2 that the tanks at the Red Triangle facility prior</p> <p>3 to 1998 failed a integrity test?</p> <p>4 A. All the test records that we</p> <p>5 reviewed from the 1990's had a passing test</p> <p>6 result.</p> <p>7 Q. With respect to the tanks installed</p> <p>8 in '98, were there any tests indicating that the</p> <p>9 post '98 tank field experience, or post '98 tanks</p> <p>10 experienced any failures of integrity tests?</p> <p>11 MS. O'REILLY: Vague and ambiguous.</p> <p>12 A. I believe the only test results we</p> <p>13 have were the installation testing of the tanks,</p> <p>14 and it appears the tanks passed the tests in</p> <p>15 September of '98.</p> <p>16 Q. Prior to 1998, are there any</p> <p>17 documents indicating that any of the product</p> <p>18 lines or associated equipment failed an integrity</p> <p>19 test?</p> <p>20 A. Prior to 1998, there's no</p> <p>21 indication of a failed tightness test on the</p> <p>22 lines. That test would not have included, most</p> <p>23 likely would not have included the STPs or the</p> <p>24 dispensers, however.</p> <p>25 Q. With regard to the period after</p>	<p>1 evidence, I don't think I have -- I don't have an</p> <p>2 opinion as to whether or not there were releases</p> <p>3 from the post-'98 storage system.</p> <p>4 Q. Was there any evidence that you</p> <p>5 reviewed in this case that prior to 1998 there</p> <p>6 was documentation indicating there were repairs</p> <p>7 or replacement of a leaking STP at the Red</p> <p>8 Triangle station?</p> <p>9 MS. O'REILLY: Same objections,</p> <p>10 vague and ambiguous.</p> <p>11 A. There were few, if any, what I</p> <p>12 would call maintenance or repair records present</p> <p>13 in the file for the pre-1998 period, so I don't</p> <p>14 have any specific repair records, but releases</p> <p>15 from STPs are fairly common occurrences.</p> <p>16 Q. Did you see any URR reporting that</p> <p>17 there had been a release from any STP prior to</p> <p>18 1998 at the Red Triangle facility?</p> <p>19 MS. O'REILLY: Assumes facts. Go</p> <p>20 ahead.</p> <p>21 A. I believe I've already indicated</p> <p>22 that we don't have any URRs for the Red Triangle</p> <p>23 facility, at least not in the documents that we</p> <p>24 reviewed. That doesn't mean that releases didn't</p> <p>25 occur, just that they weren't reported.</p>
Page 199	Page 201
<p>1 1998 and the new tanks were installed, were there</p> <p>2 any tests indicating that the product lines</p> <p>3 failed an integrity test after 1998?</p> <p>4 A. It appears they may have had some</p> <p>5 issues passing the original tightness test in</p> <p>6 September of '98, but I don't believe we have any</p> <p>7 tightness test results after that date.</p> <p>8 Q. Based on your review of the records</p> <p>9 in this case, is it your opinion that there was a</p> <p>10 release from the new tank system with secondary</p> <p>11 containment installed after 1998?</p> <p>12 MS. O'REILLY: Vague and ambiguous,</p> <p>13 overbroad.</p> <p>14 A. I don't believe we have any soil</p> <p>15 information, soil contaminant, or let me see. We</p> <p>16 don't have any soil samples taken after 1998 from</p> <p>17 relevant areas that would reveal whether there</p> <p>18 were post-1998 releases, so I can't say whether</p> <p>19 or not we have evidence of that.</p> <p>20 Q. Is it your opinion, though, that</p> <p>21 there were releases from the 1998 installed tank</p> <p>22 system?</p> <p>23 MS. O'REILLY: Asked and answered.</p> <p>24 Go ahead.</p> <p>25 A. I would say given the lack of</p>	<p>1 Q. With regard to the STPs prior to</p> <p>2 1998, when the tank system was replaced, was</p> <p>3 there any documentation of the removal of</p> <p>4 contaminated or saturated soils in the vicinity</p> <p>5 of the STPs at this facility?</p> <p>6 MS. O'REILLY: Vague and ambiguous.</p> <p>7 A. We have a statement that some</p> <p>8 petroleum hydrocarbon odors were noted from the</p> <p>9 tank pit at the west end of the pit under the</p> <p>10 gasoline tanks, and this is for the December 28th</p> <p>11 UST removal report, so this is the tank that was</p> <p>12 removed in December of '98. What I don't have</p> <p>13 is, or at least I'm not recalling whether I have</p> <p>14 a diagram that indicates which end of the tanks</p> <p>15 the STPs for that particular tank field were</p> <p>16 located. So we have indications of contamination</p> <p>17 at one end of the tanks. I would need do some</p> <p>18 research to determine whether that was the STP --</p> <p>19 whether that was the end of the tanks where the</p> <p>20 STPs were located.</p> <p>21 Q. And looking at your report, there</p> <p>22 are some 1998 graphics for the Red Triangle</p> <p>23 facility, and specifically we are referring to</p> <p>24 RWQCB-FRESNO-009928 and 009936.</p> <p>25 Are those the only graphics that</p>

51 (Pages 198 to 201)



Marcel G. Moreau

Page 202	Page 204
<p>1 you have from Parker Environmental or any other</p> <p>2 consultant or agency illustrating the location of</p> <p>3 the tanks at the Red Triangle facility that were</p> <p>4 removed in December 1998?</p> <p>5 MS. O'REILLY: Vague and ambiguous,</p> <p>6 overbroad. Go ahead.</p> <p>7 A. I would say those are probably not</p> <p>8 the only graphics. Having gone through this</p> <p>9 exercise in other cases, I determined that it</p> <p>10 would be helpful to have some diagrams when we</p> <p>11 were going through our deposition, and so as I</p> <p>12 was reviewing documents, I would select out</p> <p>13 graphics, primarily ones that showed soil sample</p> <p>14 locations. So these are just not quite random,</p> <p>15 but they're selections of the graphics that were</p> <p>16 available.</p> <p>17 If I were trying to identify the</p> <p>18 location of an STP, I would first start with some</p> <p>19 of the tank test records that we have, 'cause</p> <p>20 those often times include a diagram of the site</p> <p>21 and would indicate where the STPs might be</p> <p>22 located.</p> <p>23 Q. And do you have any of those in</p> <p>24 your collection of documents that reflect the</p> <p>25 location of the submerged turbine pumps on this</p>	<p>1 first diagram.</p> <p>2 Q. Okay. I got it.</p> <p>3 A. You got it?</p> <p>4 Q. That would be RWQCB-FRESNO-010508?</p> <p>5 A. Correct. So my understanding of</p> <p>6 this facility is that in the lower left corner of</p> <p>7 that diagram there was essentially a retail fuel</p> <p>8 facility that contained some storage tanks and</p> <p>9 dispensers, and then sort of in the middle of</p> <p>10 that diagram there's a dotted line that says</p> <p>11 "Former UST Locations," and those would be the</p> <p>12 ones that contained gasoline, diesel, and I think</p> <p>13 weed oil in one of those tanks. I believe the</p> <p>14 releases from the tanks that I was describing</p> <p>15 earlier are the ones from the non-retail side of</p> <p>16 the facility, the ones that would be in the</p> <p>17 middle of that diagram. So in my mind, they were</p> <p>18 distinguished as retail and non-retail.</p> <p>19 Q. And the non-retail were used for</p> <p>20 fueling a fleet of vehicles?</p> <p>21 A. It was never clear to me what they</p> <p>22 were used for. They didn't particularly appear</p> <p>23 to be associated with dispensers. I couldn't</p> <p>24 quite determine what exactly those tanks were</p> <p>25 used for, whether this was a bulk plant of some</p>
Page 203	Page 205
<p>1 particular tank field?</p> <p>2 MS. O'REILLY: Asked and answered.</p> <p>3 Go head.</p> <p>4 A. They may be present in my hard</p> <p>5 drive, but I would need to go look them up.</p> <p>6 Q. And with respect to the reference</p> <p>7 to this particular facility and tank field, are</p> <p>8 you talking about the UST removal at 2808 South</p> <p>9 Chestnut or are you referring to the removal at</p> <p>10 the adjacent facility? 'Cause there were two,</p> <p>11 correct?</p> <p>12 MS. O'REILLY: Okay. There are</p> <p>13 two, Bill, but I think they're at the same</p> <p>14 address. Why don't you have him explain his</p> <p>15 report.</p> <p>16 Q. More importantly, it's just when</p> <p>17 you made reference to this notation, do you know</p> <p>18 which tank field they were talking about, was it</p> <p>19 the one just with the gasoline tanks or is it the</p> <p>20 location where they had a combination of kerosene</p> <p>21 and diesel and gasoline?</p> <p>22 A. If you look just a couple pages</p> <p>23 ahead.</p> <p>24 Q. Okay.</p> <p>25 A. There's a diagram right -- the very</p>	<p>1 kind or a repackaging facility of some kind or</p> <p>2 what was going on.</p> <p>3 Q. With regard to the Red Triangle</p> <p>4 facility, did you have any information by which</p> <p>5 you could estimate the volume of gasoline sold at</p> <p>6 this facility prior to 1998 on an annual basis?</p> <p>7 A. From the retail or non-retail or</p> <p>8 either?</p> <p>9 Q. Either.</p> <p>10 A. Based on my recent review of the</p> <p>11 document listing, it doesn't appear that -- oh,</p> <p>12 wait a minute.</p> <p>13 We had some inventory quarterly,</p> <p>14 the quarterly inventory reconciliation documents</p> <p>15 that were submitted in the early '90s for this</p> <p>16 facility. I would go there first to see if they</p> <p>17 had some through-put information, but I don't</p> <p>18 have any on the top of my head.</p> <p>19 Q. With respect to the work that you</p> <p>20 did in this case, did you determine what the</p> <p>21 allowable stock loss tolerance would be for the</p> <p>22 tanks that were in use at the facility prior to</p> <p>23 1998, either retail or non-retail?</p> <p>24 A. What the inventory tolerance might</p> <p>25 be?</p>

52 (Pages 202 to 205)

Marcel G. Moreau

Page 238	Page 240
<p>1 INSTRUCTIONS TO WITNESS</p> <p>2</p> <p>3 Please read your deposition over</p> <p>4 carefully and make any necessary corrections.</p> <p>5 You should state the reason in the appropriate</p> <p>6 space on the errata sheet for any corrections</p> <p>7 that are made.</p> <p>8 After doing so, please sign the errata</p> <p>9 sheet and date it. It will be attached to your</p> <p>10 deposition.</p> <p>11 It is imperative that you return the</p> <p>12 original errata sheet to the deposing attorney</p> <p>13 within thirty (30) days of receipt of the</p> <p>14 deposition transcript by you. If you fail to do</p> <p>15 so, the deposition transcript may be deemed to</p> <p>16 be accurate and may be used in court.</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p>1 ACKNOWLEDGMENT OF DEPONENT</p> <p>2</p> <p>3 I, _____, do</p> <p>4 hereby certify that I have read the foregoing</p> <p>5 pages, and that the same is a correct</p> <p>6 transcription of the answers given by me to the</p> <p>7 questions therein propounded, except for the</p> <p>8 corrections or changes in form or substance, if</p> <p>9 any, noted in the attached Errata Sheet.</p> <p>10</p> <p>11 _____</p> <p>12 MARCEL G. MOREAU DATE</p> <p>13</p> <p>14</p> <p>15 Subscribed and sworn</p> <p>16 To before me this</p> <p>17 _____ day of _____, 20____.</p> <p>18 My commission expires: _____</p> <p>19</p> <p>20 _____</p> <p>21 Notary Public</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>
Page 239	Page 241
<p>1 -----</p> <p>2 E R R A T A</p> <p>3 -----</p> <p>4 PAGE LINE CHANGE</p> <p>5 _____</p> <p>6 REASON: _____</p> <p>7 _____</p> <p>8 REASON: _____</p> <p>9 _____</p> <p>10 REASON: _____</p> <p>11 _____</p> <p>12 REASON: _____</p> <p>13 _____</p> <p>14 REASON: _____</p> <p>15 _____</p> <p>16 REASON: _____</p> <p>17 _____</p> <p>18 REASON: _____</p> <p>19 _____</p> <p>20 REASON: _____</p> <p>21 _____</p> <p>22 REASON: _____</p> <p>23 _____</p> <p>24</p> <p>25</p>	<p>1 LAWYER'S NOTES</p> <p>2 PAGE LINE</p> <p>3 _____</p> <p>4 _____</p> <p>5 _____</p> <p>6 _____</p> <p>7 _____</p> <p>8 _____</p> <p>9 _____</p> <p>10 _____</p> <p>11 _____</p> <p>12 _____</p> <p>13 _____</p> <p>14 _____</p> <p>15 _____</p> <p>16 _____</p> <p>17 _____</p> <p>18 _____</p> <p>19 _____</p> <p>20 _____</p> <p>21 _____</p> <p>22 _____</p> <p>23 _____</p> <p>24 _____</p> <p>25 _____</p>

61 (Pages 238 to 241)

Marcel G. Moreau

Page 704

UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF NEW YORK

IN RE: METHYL TERTIARY BUTYL  
ETHER ("MTBE") MDL No. 1358  
Products Liability Litigation (SAS)

This Document Relates to:

CITY OF FRESNO V. CHEVRON, U.S.A.,  
INC., et al.,  
Case No. 04 Civ 4973 (SAS)

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WEDNESDAY, APRIL 11, 2012

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Videotaped Deposition of MARCEL G. MOREAU,  
Expert Witness, Volume IV, held at the Law Offices of  
Sheppard Mullin Richter & Hampton, Four Embarcadero,  
17th Floor, San Francisco, California, beginning at  
8:59 a.m., before Sandra Bunch VanderPol, FAPR, RMR,  
CRR, CSR #3032

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## Marcel G. Moreau

Page 705	Page 707
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Page 706	Page 708
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Marcel G. Moreau

Page 773	Page 775
<p>1 California gasoline.</p> <p>2 So June of '98 would be the last time or the</p> <p>3 last event where evidence of a release was</p> <p>4 discovered -- of gasoline that contained MTBE.</p> <p>5 BY MR. PÉREZ:</p> <p>6 Q. And with respect to the January of</p> <p>7 2009 and January 2010 releases that you just</p> <p>8 mentioned, you state for both of those, quote, "This</p> <p>9 release likely did not contribute to the MTBE</p> <p>10 contamination at this facility," closed quote.</p> <p>11 Correct?</p> <p>12 A. Well, the first part of that sentence</p> <p>13 is, "MTBE should not have been present in California</p> <p>14 motor fuel in 2010." One of them should have said</p> <p>15 209 (sic).</p> <p>16 So this release likely did not contribute to</p> <p>17 the MTBE contamination at this facility, that's</p> <p>18 correct.</p> <p>19 Q. And this is a case where in the</p> <p>20 "Customer Spill" section you do mention a specific</p> <p>21 customer release occurring in August of 2005,</p> <p>22 correct?</p> <p>23 A. That is correct.</p> <p>24 Q. And that was also after the time that</p> <p>25 MTBE was no longer in use in California gasoline,</p>	<p>1 other to have been the source of the release?</p> <p>2 MS. O'REILLY: Vague and ambiguous.</p> <p>3 Overbroad.</p> <p>4 THE WITNESS: In general, I would say that</p> <p>5 the submersible pump and adjacent piping is likely --</p> <p>6 is more likely to be a significant source of release</p> <p>7 or a more significant source than a delivery spill.</p> <p>8 I need to go and look up the soil sample</p> <p>9 results, if you wanted to get more specific than that</p> <p>10 for this specific site.</p> <p>11 MR. PÉREZ: Not necessary.</p> <p>12 Q. For all -- for any of the releases</p> <p>13 that you discussed in the "Identification of MTBE</p> <p>14 Releases" section, were you able to calculate the</p> <p>15 volume of the release?</p> <p>16 A. At this site?</p> <p>17 Q. Yes.</p> <p>18 MS. O'REILLY: Vague and ambiguous.</p> <p>19 THE WITNESS: Except for the customer spill</p> <p>20 in August of 2005, the volume released was not able</p> <p>21 to be determined for the other release incident or</p> <p>22 for the evidence of releases that was discovered at</p> <p>23 various times.</p> <p>24 BY MR. PEREZ:</p> <p>25 Q. Were you able to determine the</p>
Page 774	Page 776
<p>1 right?</p> <p>2 A. It should not have been present in</p> <p>3 the gasoline, that's correct.</p> <p>4 Q. For this site did you consider the</p> <p>5 possibility that any off-site source could have</p> <p>6 contributed to the presence of MTBE at the site?</p> <p>7 A. Again, the thrust of our</p> <p>8 investigation was to determine whether releases had</p> <p>9 occurred at the storage systems at this particular</p> <p>10 site.</p> <p>11 In this particular case, there was ample</p> <p>12 evidence of soil contamination immediately adjacent</p> <p>13 to the storage systems, well above the water table.</p> <p>14 So I did not feel the need to investigate whether</p> <p>15 off-site sources of contamination may have</p> <p>16 contributed to the contamination at this site.</p> <p>17 Q. On page 4 of 5, with respect to the</p> <p>18 June of 1998 release discussed in the last paragraph;</p> <p>19 do you see that?</p> <p>20 A. I do.</p> <p>21 Q. You mention possible sources of that</p> <p>22 release being delivery spills or leaks from the</p> <p>23 submersible pump or adjacent piping. Do you have any</p> <p>24 opinion with respect to which of those two possible</p> <p>25 sources that you mention is more likely than the</p>	<p>1 duration of any of the releases that you identified</p> <p>2 for this site?</p> <p>3 A. For the active release discovered in</p> <p>4 June of '94, the statement in the report is that,</p> <p>5 "When the leak began is not known." So we were not</p> <p>6 able to establish a start point for that release.</p> <p>7 And then for the other evidence of releases,</p> <p>8 the statement is that the releases were likely</p> <p>9 intermittent.</p> <p>10 Q. On page 3 of 5, September --</p> <p>11 September 27th, 1998 entry you note that, "The Tank</p> <p>12 Closure Report indicated that the tanks removed were</p> <p>13 in good condition and there were no holes or pitting</p> <p>14 observed in any of the USTs." Do you see that?</p> <p>15 A. I see that, yes.</p> <p>16 Q. Does that indicate to you that there</p> <p>17 was never a release from the tanks themselves at this</p> <p>18 site?</p> <p>19 MS. O'REILLY: Vague and ambiguous.</p> <p>20 Overbroad.</p> <p>21 THE WITNESS: As I've discussed before, the</p> <p>22 type of observations that are made during tank</p> <p>23 removal are typically very cursory. So I take this</p> <p>24 to be an indication that there was no obvious holes</p> <p>25 in the tank from the outside.</p>

19 (Pages 773 to 776)

Marcel G. Moreau

Page 777	Page 779
<p>1 I would point out that internal corrosion</p> <p>2 holes are very difficult to spot. So the indications</p> <p>3 are that there were no holes observed when these</p> <p>4 tanks were removed. I wouldn't go so far to say that</p> <p>5 the tanks themselves never leaked.</p> <p>6 BY MR. PÉREZ:</p> <p>7 Q. Let's go on to the next site, please,</p> <p>8 which is Fresno Valley Gas. If you could look at the</p> <p>9 Site Specific Report you prepared for that site.</p> <p>10 It's located at 2139 South Elm Street in Fresno.</p> <p>11 A. I have that.</p> <p>12 Q. Looking at the "Identification of</p> <p>13 MTBE Releases" section, would you agree that among</p> <p>14 the releases discussed here in both the "Tank Area</p> <p>15 Releases" and the "Piping and Dispenser Area</p> <p>16 Releases" section, for those releases prior to 1992,</p> <p>17 none of those contributed to the presence of MTBE at</p> <p>18 the site; is that correct?</p> <p>19 MS. O'REILLY: Misstates the document.</p> <p>20 Vague and ambiguous.</p> <p>21 THE WITNESS: There's several actual release</p> <p>22 incidents -- or active releases that were discovered</p> <p>23 in the time period before 1992. And the statement</p> <p>24 associated with those in the report is that MTBE was</p> <p>25 not commonly present in California gasoline in --</p>	<p>1 release incidents, I was not able to determine the</p> <p>2 start of the release for any of those incidents that</p> <p>3 were identified.</p> <p>4 With regard to the evidence of a release</p> <p>5 provided by soil contamination, the report states</p> <p>6 that the releases were likely intermittent.</p> <p>7 BY MR. PÉREZ:</p> <p>8 Q. And were you able to identify the</p> <p>9 source for any of the releases you identified in this</p> <p>10 section for this site?</p> <p>11 A. There were a number of sources</p> <p>12 identified. Do you want to go through the list?</p> <p>13 Q. Sure.</p> <p>14 A. In August of '89, the unleaded</p> <p>15 turbine pump was observed to be leaking. A fill</p> <p>16 riser was found to be leaking in April of 1992. The</p> <p>17 specific tank is not identified. Piping and</p> <p>18 dispensers 4 and 6 were observed to be leaking in</p> <p>19 August of '89.</p> <p>20 A piping leak was identified in the Premium</p> <p>21 dispenser in October of 1990. A piping leak in a</p> <p>22 dispenser riser, the particular dispenser is not</p> <p>23 identified, was observed in April of 1992. A leak in</p> <p>24 the Unleaded piping was repaired in August of 1999.</p> <p>25 A piping leak near the southern dispenser islands was</p>
Page 778	Page 780
<p>1 insert the appropriate date -- but it would be before</p> <p>2 the fall of 1992. So it's unlikely that this release</p> <p>3 contributed to the MTBE contamination at this</p> <p>4 facility.</p> <p>5 So without having specific information about</p> <p>6 a gasoline supplier, sort of the default opinion is</p> <p>7 that a release of MTBE was unlikely prior to the fall</p> <p>8 of '92.</p> <p>9 BY MR. PÉREZ:</p> <p>10 Q. For any of the releases discussed in</p> <p>11 the "Identification of MTBE Releases" section for</p> <p>12 this site, were you able to determine the volume of</p> <p>13 the release?</p> <p>14 MS. O'REILLY: Asked and answered. Vague</p> <p>15 and ambiguous.</p> <p>16 Go ahead.</p> <p>17 THE WITNESS: A specific volume for any of</p> <p>18 the releases or any of the evidence of releases that</p> <p>19 was discovered could not be determined with the</p> <p>20 documentation that was provided.</p> <p>21 BY MR. PÉREZ:</p> <p>22 Q. Were you able to determine the</p> <p>23 duration of any of these releases?</p> <p>24 MS. O'REILLY: Same objections.</p> <p>25 THE WITNESS: With regard to the actual</p>	<p>1 repaired in November of '99.</p> <p>2 I think that's it for the actual releases</p> <p>3 that were identified.</p> <p>4 Q. Do you have any opinions regarding</p> <p>5 the occurrence of a release at this site between the</p> <p>6 fall of 1992 and August of 1999?</p> <p>7 MS. O'REILLY: Vague. Ambiguous.</p> <p>8 Overbroad.</p> <p>9 BY MR. PÉREZ:</p> <p>10 Q. If you look on page 4 of 5, just to</p> <p>11 help you answer the question. Under the "Piping and</p> <p>12 Dispenser Area Releases," the third paragraph talks</p> <p>13 about a spill in April of 1992. And you have stated</p> <p>14 earlier that MTBE was not commonly present in</p> <p>15 California gasoline beginning in the fall of 1992,</p> <p>16 correct?</p> <p>17 And the next paragraph talks about a release</p> <p>18 or a line leak repair in August of '89.</p> <p>19 So in between those two incidents, do you</p> <p>20 have any opinion regarding the occurrence of any</p> <p>21 release in that time frame?</p> <p>22 MS. O'REILLY: Vague. Ambiguous.</p> <p>23 Overbroad. Asked and answered.</p> <p>24 THE WITNESS: The documented release</p> <p>25 incidents are -- or there's a gap in the documented</p>

20 (Pages 777 to 780)



Marcel G. Moreau

Page 797	Page 799
<p>1 MS. O'REILLY: Vague and ambiguous.</p> <p>2 BY MR. PÉREZ:</p> <p>3 Q. Also excluding the September 2003</p> <p>4 fuel piping release that we discussed earlier.</p> <p>5 MS. O'REILLY: Same objections.</p> <p>6 THE WITNESS: Are we on the Gas 4 Less site?</p> <p>7 MR. PÉREZ: Yes.</p> <p>8 THE WITNESS: We talked about a September</p> <p>9 2003 release already?</p> <p>10 BY MR. PÉREZ:</p> <p>11 Q. We talked about that release of one</p> <p>12 gallon --</p> <p>13 A. Oh.</p> <p>14 Q. -- that's in the last paragraph of</p> <p>15 the piping and dispenser sentence?</p> <p>16 A. Sorry. That is correct.</p> <p>17 Q. Obviously you've already discussed</p> <p>18 the source of that one.</p> <p>19 A. Right.</p> <p>20 Other than the September 2003 incident, the</p> <p>21 evidence comes from -- what we have is evidence of a</p> <p>22 release rather than description of actual release</p> <p>23 events. So the sources of the release in the tank</p> <p>24 area would have been delivery spills, leaks from tank</p> <p>25 top fittings, and leaks from submersible pumps and</p>	<p>1 were removed in 1999." Do you see that sentence?</p> <p>2 A. I see that sentence, yes.</p> <p>3 Q. Did I read it correctly?</p> <p>4 A. You did.</p> <p>5 Q. Do you have any opinion regarding</p> <p>6 whether it's more likely that any releases during</p> <p>7 that time frame occurred in the beginning of that</p> <p>8 time period -- say between 1992 and 1995 -- as</p> <p>9 opposed to the end of that time period between '96</p> <p>10 and '99?</p> <p>11 MS. O'REILLY: Vague and ambiguous.</p> <p>12 Overbroad.</p> <p>13 THE WITNESS: There was an investigation</p> <p>14 conducted in, it looks to be October 1995. There was</p> <p>15 no analysis done for MTBE at that time. There</p> <p>16 appeared to have been some releases that occurred by</p> <p>17 that time.</p> <p>18 But without specific analysis for MTBE, I</p> <p>19 couldn't have any opinion -- I can't offer any</p> <p>20 opinion as to whether MTBE releases occurred more</p> <p>21 likely that, you know, prior to '95 or after '95.</p> <p>22 BY MR. PÉREZ:</p> <p>23 Q. And I take it your answer would be</p> <p>24 the same for the releases discussed in the first</p> <p>25 paragraph of the piping and dispenser area releases,</p>
Page 798	Page 800
<p>1 adjacent piping. And releases from the piping and</p> <p>2 dispenser area would be from dispenser components</p> <p>3 and/or adjacent piping.</p> <p>4 But I don't have a -- I can't be more</p> <p>5 specific with it.</p> <p>6 Q. And for any of the releases described</p> <p>7 in the "Identification of Releases" section, were you</p> <p>8 able to determine the duration of the release?</p> <p>9 MS. O'REILLY: Misstates the document.</p> <p>10 Vague and ambiguous.</p> <p>11 THE WITNESS: I was not able to determine a</p> <p>12 specific duration of a release. The opinion stated</p> <p>13 is that the releases were likely intermittent.</p> <p>14 BY MR. PÉREZ:</p> <p>15 Q. Let's briefly turn to the Exxon</p> <p>16 Tulare site, and I just have a few brief questions on</p> <p>17 that, following up on Mr. Stack's questioning.</p> <p>18 In the "Identification of MTBE Releases"</p> <p>19 section for the Exxon Tulare site, which is located</p> <p>20 at 4594 East Tulare Avenue in Fresno, in the first</p> <p>21 paragraph of that section, the second to the last</p> <p>22 sentence reads, quote, "The timing of the releases is</p> <p>23 not known, but the releases likely occurred between</p> <p>24 the fall of 1992, when MTBE was required to be in</p> <p>25 Fresno County gasoline, and the time when the tanks</p>	<p>1 which you mentioned likely occurred during that same</p> <p>2 time period?</p> <p>3 A. With the information that I have</p> <p>4 available and my expertise which is in storage</p> <p>5 systems -- your hydrogeo people may have different</p> <p>6 opinions, but from where I'm sitting, I can't offer</p> <p>7 any opinions as to -- any more precise than what I've</p> <p>8 offered right here as to the timing of those</p> <p>9 releases.</p> <p>10 Q. So it's equally likely that it</p> <p>11 occurred earlier or later in the time period, in your</p> <p>12 opinion?</p> <p>13 A. The information I have, I can only</p> <p>14 bracket the release between fall of '92 and when the</p> <p>15 tanks were removed in '99. And I can't -- I can't</p> <p>16 differentiate that period any more than that.</p> <p>17 Q. Now that we have talked about all the</p> <p>18 sites, I want to go back to one point that you made</p> <p>19 early on.</p> <p>20 You said that if you had considered supplier</p> <p>21 information in connection with development of your</p> <p>22 opinions for any of these sites, it would have been</p> <p>23 noted in a footnote in your site summary, correct?</p> <p>24 A. I believe that's correct.</p> <p>25 Q. And I don't believe that any of the</p>

25 (Pages 797 to 800)

Marcel G. Moreau

<p style="text-align: right;">Page 953</p> <p>1                   ACKNOWLEDGMENT OF DEPONENT</p> <p>2</p> <p>3                   I, _____, do</p> <p>4 hereby certify that I have read the foregoing</p> <p>5 pages, and that the same is a correct</p> <p>6 transcription of the answers given by me to the</p> <p>7 questions therein propounded, except for the</p> <p>8 corrections or changes in form or substance, if</p> <p>9 any, noted in the attached Errata Sheet.</p> <p>10</p> <p>11 _____</p> <p>12 MARCEL G. MOREAU           DATE</p> <p>13</p> <p>14</p> <p>15 Subscribed and sworn</p> <p>16 To before me this</p> <p>17 _____ day of _____, 20____.</p> <p>18 My commission expires: _____</p> <p>19 _____</p> <p>20 Notary Public</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 955</p> <p>1                   CERTIFICATE OF REPORTER</p> <p>2                   I, SANDRA BUNCH VANDER POL, a Certified</p> <p>3 Shorthand Reporter, hereby certify that the witness</p> <p>4 in the foregoing deposition was by me duly sworn to</p> <p>5 tell the truth, the whole truth and nothing but the</p> <p>6 truth in the within-entitled cause;</p> <p>7                   That said deposition was taken down in</p> <p>8 shorthand by me, a disinterested person, at the time</p> <p>9 and place therein stated, and that the testimony of</p> <p>10 the said witness was thereafter reduced to</p> <p>11 typewriting, by computer, under my direction and</p> <p>12 supervision;</p> <p>13                   That before completion of the deposition,</p> <p>14 review of the transcript was requested. If</p> <p>15 requested, any changes made by the deponent (and</p> <p>16 provided to the reporter) during the period allowed</p> <p>17 are appended hereto.</p> <p>18                   I further certify that I am not of counsel or</p> <p>19 attorney for either or any of the parties to the said</p> <p>20 deposition, nor in any way interested in the event of</p> <p>21 this cause, and that I am not related to any of the</p> <p>22 parties thereto.</p> <p>23 DATED: _____</p> <p>24 _____</p> <p>25 SANDRA BUNCH VANDER POL, CSR #3032</p>
<p style="text-align: right;">Page 954</p> <p>1                   -----</p> <p>2                   E R R A T A</p> <p>3                   -----</p> <p>4 PAGE LINE CHANGE</p> <p>5 _____</p> <p>6 REASON: _____</p> <p>7 _____</p> <p>8 REASON: _____</p> <p>9 _____</p> <p>10 REASON: _____</p> <p>11 _____</p> <p>12 REASON: _____</p> <p>13 _____</p> <p>14 REASON: _____</p> <p>15 _____</p> <p>16 REASON: _____</p> <p>17 _____</p> <p>18 REASON: _____</p> <p>19 _____</p> <p>20 REASON: _____</p> <p>21 _____</p> <p>22 REASON: _____</p> <p>23 _____</p> <p>24 REASON: _____</p> <p>25 _____</p>	

64 (Pages 953 to 955)



# **EXHIBIT 8**

Beacon 3519

## Beacon #3519

4591 East Belmont Avenue, Fresno

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### MAJOR MILESTONES

1961	Three 12,000-gallon USTs were installed [10/22/1998].
Dec 10, 1998	Three single-walled (SW) steel, 12,000-gallon USTs, piping, and dispensers were removed.
Jan 19, 1999	A Permit to Operate was issued for two 15,000-gallon unleaded tanks with pressure piping. The tanks were installed in the same excavation as the former USTs.
Feb 13, 2001	MtBE was detected in groundwater samples. Quarterly groundwater sampling commenced.
July 10, 2003	Consultant concluded after two series of soil vapor extraction tests that SVE was not a feasible alternative for remediation of soil beneath the site. On behalf of Ultramar, the consultant requested CRWQCB to grant a low-risk closure for the site.
March 15, 2004	CRWQCB confirmed the completion of a site investigation and corrective action for the USTs formerly located at the facility.

### SPILL/LEAK EVENT CHRONOLOGY

Dec 10, 1998	UST Abandonment Inspection Report. Three 12,000-gallon USTs were removed. Soil samples were collected from the tank excavations and from beneath eight dispensers on two islands (only four dispenser samples were reported in the removal report). Odors were observed in the samples from the east side of Tank 2 (T2): strong odor, gray soil in S5 (15 ft bgs) and medium odor, grayish soil in S6 (17 ft bgs). All three tanks were in good condition, rusted, with no holes visible. [12/10/1998]
Dec 11, 1998	An Unauthorized Release Report (URR) was filed by Fresno County for the release of an unknown quantity of gasoline, discovered during tank removals. The source was checked as unknown.

## SOIL/GROUNDWATER CONTAMINATION CHRONOLOGY

- Feb 18, 1999      Tank Removal / Closure Report. On Dec 10-11, 1998, three SW steel, 12,000-gallon USTs, product piping, and two dispenser islands were removed from the site. Soil samples were collected for analysis of TPHg, MtBE, and BTEX. Additional sidewall samples were collected on 12/14/1998 from the Tank 3 excavation.
- USTs: The highest concentrations of TPHg (13,000,000 ppb) and MtBE (110,000 ppb) were in the samples collected from the east end (submersible end) of Tank 3 (15 and 18 ft bgs). Lower concentrations of TPHg were detected in samples from T2 (1,900 to 9,700 ppb) but not T1. MtBE was detected at all three tank locations (15 ppb to 110,000 ppb).
- Product Line Trenches – No analytes were detected in the single sample collected (3 ft bgs).
- Dispenser Samples: TPHg (at 1,100 ppb) and MtBE (at 120 ppb) were detected in the sample near the south end of the eastern dispenser island (6 ft bgs). No analytes were detected in the other three dispenser samples. Note: the site diagram indicates samples were taken from beneath the piping adjacent to the dispensers, not directly beneath the dispensers.
- Feb 7, 2000      Two soil borings (B-1 & B-2) were drilled to 75 ft bgs and soil samples were collected. B-1 was on the east side of the UST excavation, and B-2 was on the south side. TPHg was found only in B-1 samples, at a maximum concentration of 13,000 ppb (45 ft bgs). MtBE was detected in samples from both borings, with a high of 38,000 ppb at B-1 (31 ft bgs) and 1,600 ppb at B-2 (31 ft bgs). The borings were grouted to 30 and 41 ft bgs, and vapor extraction wells were installed (VW-1 & VW-2). The consultant concluded that no gasoline constituents were present within 20 to 30 ft of the estimated groundwater level (90 ft bgs). [6/15/2000]
- Dec 27-29, 2000      Three monitoring wells were installed to a depth of 115 ft bgs. MW-1 was located east of the UST excavation area, and MW-2 and MW-3 were located on the southern property boundary. [4/6/2001]
- Feb 13, 2001      Groundwater samples were collected and analyzed. Quarterly groundwater sampling commenced. [4/6/2001]

April 6, 2001 Results of Soil and Groundwater Investigation. Groundwater was measured in site wells at 99 ft bgs, and reportedly flowed to the west-southwest. No TPHg or BTEX compounds were detected in the Dec 2000 soil boring samples. MtBE was detected in soil samples collected from 10 to 85 ft bgs at the MW-1 boring, with a maximum concentration of 16,000 ppb (40 ft bgs). The 85 ft bgs sample from MW-1 also contained 6.5 ppb MtBE. The only MtBE detection at MW-2 was 5.6 ppb at 100 ft bgs. No MtBE was present in soil samples from the MW-3 boring. In groundwater, only MtBE was detected: 59 ppb in MW-1 and 6.6 ppb in MW-2. Other groundwater analytes that were ND were TPHg, BTEX, DIPE, ETBE, TAME, TBA, DCA, DBA.

July 10, 2003 Soil Vapor Extraction Test Report and Request for No Further Action. Consultant concluded after two series of soil vapor extraction tests that SVE was not a feasible alternative for remediation of soil beneath the site. Also noted was that no TPHg or BTEX had ever been detected in groundwater samples, and no MtBE concentrations above 1 ppb had been reported in groundwater since Dec 2001. A request was made for low-risk closure and permission to abandon the vapor extraction and monitoring wells.

March 15, 2004 Case Closure Summary. Fifteen water supply wells were identified within a 2,500-foot radius of the site. The closest well was approximately 600 ft west of the site and was identified as City of Fresno municipal Well #30A.

Summary and conclusions: A former release of petroleum hydrocarbons at the site resulted in the degradation of the underlying soils and groundwater. The extent of the impacted soils has been adequately evaluated. Remediating the impacted soils via SVE technology was evaluated and determined to not be a viable cleanup alternative. Further investigation of the site does not appear warranted. The results of groundwater monitoring and sampling events conducted between 2001 and 2003 revealed that the contaminant plume had stabilized and decreased. Groundwater impacts diminished to nearly non-detectable levels as of March 2002. The residual petroleum hydrocarbons in the underlying soils are likely to naturally degrade and are not anticipated to pose a threat to the beneficial use of groundwater in the area.

CRWQCB confirmed the completion of a site investigation and corrective action for the USTs formerly located at the facility.  
[RWQCB-FRESNO-016244]

May 11, 2004

Well Abandonment Report. Three monitoring wells and two VE wells were pressure-grouted. [5/11/2004]

## IDENTIFICATION OF MTBE RELEASES

### Tank Area Releases

MtBE contaminated soil was discovered at the bottom of the tank excavation in December of 1998 when three storage tanks were removed. The highest levels of MtBE contamination (110,000 ppb) were associated with the submersible pump end of Tank 3, but all samples except the sample from the fill end of Tank 1 were contaminated with MtBE at levels ranging from 15 to 21,000 ppb. Contamination detected at the fill ends of the tanks was likely the results of delivery releases, while contamination detected at the submersible pump ends of the tanks was likely the result of releases from the submersible pumps and adjacent piping. The releases were likely intermittent. The volume released is not known.

### Piping and Dispenser Area Releases

MtBE contaminated soil was discovered beneath piping adjacent to the dispensers in December of 1998 when the piping and dispensers were removed. Because of the proximity of the sample to the dispensers, the releases that produced the contamination could have originated from the piping or from the dispensers. Dispensers and adjacent piping are frequent sources of releases (see general report in this case). The releases were likely intermittent. The volume released is not known.

### Customer Spills

Small spills are common during vehicle fueling activities and no doubt occurred throughout the time this facility was in operation. Fueling spills may have contributed to the MtBE contamination present in the dispenser area.

# **EXHIBIT 9**

Fresno Valley Gas



## Fresno Valley Gas

2139 South Elm St., Fresno

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**Note:** Station known as Beacon Station No. 528, Ultramar Station No. 538, and Arco/Ultramart.

### MAJOR MILESTONES

1975	Three 10,000-gallon steel tanks and piping were installed, with no overfill protection or spill containment [undated document].
Nov 18, 1985	A new convenience store building was reportedly completed, and one dispenser island was removed.
April 17, 1991	Three soil borings were drilled to evaluate petroleum hydrocarbons in soil and groundwater at the site as part of a real estate transaction. Petroleum hydrocarbons were not found in soil samples; groundwater was not encountered.
April 17, 1992	Several piping leaks were discovered via a helium test.
Dec 8, 1998	New construction permit application included removal of the surface cover to the tanks, internal sandblasting and coating, installation of cathodic protection, installation of a Veeder Root tank monitor and line leak detection.
Oct 25, 1999	A line leak was discovered by helium testing.
Nov 29, 1999	A soil sample collected on the north side of the southern dispenser island, where a hole in a pipe was discovered and repaired, was found to contain 31,000,000 ppb TPHg and 920,000 ppb MtBE.
Mar 2004	Bravo boxes were added beneath the dispensers. Dispenser containment not present previously [6 26 2003].
May 18, 2004	Shallow soil beneath the dispensers was reportedly “significantly impacted by fuel hydrocarbons”, with a maximum MtBE concentration of 164,000 ppb. Additional investigation was recommended.

- Jun 20, 2007 Official Inspection Report notes: "Facility still under piping replacement and under red tag regulation. Business is still closed." No other references to red tag were reviewed.
- Feb 28, 2008 A final construction inspection report documented the presence of:
- Single-wall steel USTs, with lining and cathodic protection.
  - Overspill and overfill prevention.
  - DW FRP piping, with continuous monitoring.

### **SPILL/LEAK EVENT CHRONOLOGY**

- Aug 14, 1989 A tightness testing report noted a leak at dispenser #4 in the vapor line and a leak at dispenser #6. The unleaded turbine was also found to be leaking.
- Aug 21, 1989 An interoffice memo questioned the accuracy of some of the Aug 1989 test results. Further testing confirmed a leak in the premium NL line and the NL turbine, and both were repaired. [8/25/1989]
- Sept 8, 1989 A letter to Fresno County stated that the super line failed PetroTite line testing on Aug 14, 1989. The line was uncovered and repaired and passed a line test on 8/15/1989.
- Oct 5, 1990 Tank test results indicated a loss of -0.403 on the premium unleaded.
- Oct 25, 1990 Inspection Report documented that the super NL product line was repaired; the overfill protection, fill pipe, and vent pipe were also replaced.
- April 17, 1992 Official Inspection Report: An assessment of the exposed piping indicated that the metal piping was rusted and corroding; several leaks in the piping were found via a helium test. One leak was reportedly detected at the dispenser riser and another at the fill box.
- July 30, 1999 Official Inspection Report: Inspector noted that gasoline was being dispensed at the NL pumps, in violation of an order not to dispense fuel until the dispenser had been repaired, tested, and approved.
- Oct 25, 1999 A line leak, discovered by helium testing, was reported on the south island in front of the canopy column.
- Nov 5, 1999 UST Installation Inspection Record: Because of a leak (see Oct 25, 1999), the 87 NL piping was replaced between the southern dispenser

island and the market. A soil sample was collected for TPHg, BTEX and MtBE analysis, and strong odors were noted.

## **SOIL/GROUNDWATER CONTAMINATION CHRONOLOGY**

April 17, 1991	Subsurface Environmental Investigation Report: Three soil borings (B1 to B3) were drilled to 35 to 50 ft bgs (max depth) to evaluate petroleum hydrocarbons in soil and groundwater at the site as part of a real estate transaction. Soil samples were analyzed for TPHg and BTEX, and the results were ND for the most part (two toluene hits at 15 ft bgs). Groundwater was not encountered. [5/8/1991]
Nov 29, 1999	Soil sample S-1 was collected at 5 ft bgs on 11/5/1999 on the north side of the southern dispenser island, where a hole in a pipe was discovered and repaired. The sample was found to contain 31,000,000 ppb TPHg and 920,000 ppb MtBE.
May 18, 2004	Soil samples were collected from beneath the six dispensers at the site on March 19 and 30, 2004, and tested for TPHg, BTEX, MtBE, and other oxygenates. The soil beneath the dispensers was reportedly "significantly impacted by fuel hydrocarbons." Four of six samples had TPHg levels greater than 1,000,000 ppb. The highest concentrations were in samples taken at the southern dispenser island at 4 ft bgs; the maximum TPHg concentration was 6,022,000 ppb and the maximum MtBE concentration was 164,000 ppb. Another sample from the southern dispenser island had 38,000 ppb MtBE. One sample from the northern dispenser island had 5,000 ppb of MtBE. Additional investigation was recommended.
April 9, 2007	Results of Soil Sampling Report: Soil samples were collected during the removal of the dispenser system in Dec 2006, but the results were never reported. Nine samples were collected with hand augers in February of 2007. MtBE was detected in two samples from the southern dispenser island, at 24 ppb and 27,000 ppb.

## **IDENTIFICATION OF MTBE RELEASES**

### Tank Area Releases

The unleaded turbine pump was observed to be leaking in August of 1989 and repaired shortly thereafter. When this release began is not known. The volume released is not known. MtBE was not commonly present in California gasoline in 1989, so it is unlikely that this release

contributed to the MtBE contamination at this facility.

A leak in a fill riser was detected and repaired in April of 1992. When this release began is not known. The volume released is not known. MtBE was not commonly present in California gasoline in the spring of 1992, so it is unlikely that this release contributed to the MtBE contamination at this facility.

#### Piping and Dispenser Area Releases

Releases were observed in the piping associated with dispensers #4 and #6 in August of 1989 and repaired shortly thereafter. Releases from dispensers are common (see general report in this case). When these releases began is not known. The volume released is not known. MtBE was not commonly present in California gasoline in 1989, so it is unlikely that these releases contributed to the MtBE contamination at this facility.

A piping leak in a premium dispenser was detected and repaired in October of 1990. Releases from dispensers are common (see general report in this case). When this release began is not known. The volume released is not known. MtBE was not commonly present in California gasoline in 1990, so it is unlikely that this release contributed to the MtBE contamination at this facility.

A piping leak in a dispenser riser was detected and repaired in April of 1992. Releases from dispensers and adjacent piping are common (see general report in this case). When this release began is not known. The volume released is not known. MtBE was not commonly present in California gasoline in the spring of 1992, so it is unlikely that this release contributed to the MtBE contamination at this facility.

A leak in the unleaded line was repaired in August of 1999. Unleaded fuel was apparently being dispensed despite the leak. The exact location of the leak is not known. When this release began is not known. The volume released is not known. MtBE was commonly present in California gasoline in 1999, so it is likely that this release contributed to the MtBE contamination at this facility.

A piping leak near the southern dispenser islands was repaired in November of 1999, and MtBE contaminated soil was detected. When the leak began is not known. The volume of the release is not known.

MtBE was detected in three of six soil samples collected in March of 2004 from beneath the dispensers at the site. When these releases occurred is not known, but they likely occurred intermittently between the fall of 1992 when MtBE was first required to be present in Fresno County gasoline,<sup>1</sup> and 2003 when MtBE was removed from California gasoline. The exact

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<sup>1</sup> "Areas Participating in the Oxygenated Gasoline Program," Energy Information Administration, Department of Energy, <http://www.eia.gov/steo/special/oxy2.html#Original>, accessed on 9/15/2011.

dispenser components that leaked are not known, but dispensers and adjacent piping are frequent sources of releases (see general report in this case). The amount released is not known.

MtBE was detected in two of nine soil samples collected in February of 2007 from beneath the dispensers at the site. When these releases occurred is not known, but they likely occurred intermittently between the fall of 1992 when MtBE was first required to be present in Fresno County gasoline,<sup>2</sup> and 2003 when MtBE was removed from California gasoline. The exact components that leaked are not known, but dispensers and adjacent piping are frequent sources of releases (see general report in this case). The amount released is not known.

#### Customer Spills

Small spills are common during vehicle fueling activities and no doubt occurred throughout the time this facility was in operation. Fueling spills may have contributed to the MtBE contamination detected in the dispenser area at this facility.

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<sup>2</sup> Ibid.

# **EXHIBIT 10**

Deposition of Shirley McMurphy Ahmad / February 16, 2011

Page 1	Page 3
<p>UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF NEW YORK</p> <p>CITY OF FRESNO, )  ) Plaintiff, )  ) vs. ) No. 04 CIV. 4973  ) (SAS)MDL 1358 CHEVRON U.S.A. INC., et al., )  ) Defendants. ) _____ )</p> <p>DEPOSITION OF SHIRLEY McMURPHY AHMAD FREMONT, CALIFORNIA WEDNESDAY, FEBRUARY 16, 2011</p> <p>DEPOBOOK REPORTING SERVICES Certified Shorthand Reporters 1600 G Street, Suite 101 Modesto, California 95354 800-830-8885</p> <p>REPORTER: DENISE WHEELER, CSR NO. 8254</p>	<p>1 2 APPEARANCES (Cont'd): 3 FOR THE DEFENDANT KERN OIL AND REFINING: 4 CYNTHIA TSAI, Attorney at Law GORDON &amp; REES, LLP 5 101 W. Broadway, Suite 2000 San Diego, California 92101 6 619.696.6700 619.696.7124 FAX 7 ctsai@gordonrees.com 8 FOR THE DEFENDANT VALERO: 9 BEN PATTON, Attorney at Law BRACEWELL &amp; GIULIANI, LLP 10 711 Louisiana Street, Suite 2300 Houston, Texas 77002-2770 11 713.221.1344 713.221.1212 FAX 12 ben.patton@bglp.com 13 14 15 16 17 18 19 20 21 22 23 24 25</p>
Page 2	Page 4
<p>1 APPEARANCES: 2 FOR THE PLAINTIFF: 3 EVAN EICKMEYER, Attorney at Law MILLER, AXLINE, SAWYER 4 1050 Fulton Avenue, Suite 100 Sacramento, California 95825-4225 5 916.488.6688 916.488.4288 FAX 6 eeickmeyer@toxicortors.org 7 FOR THE DEFENDANT TESORO: 8 NARGUES MOTAMED, Attorney at Law BINGHAM MCCUTCHEN, LLP 9 355 South Grand Avenue, Suite 4400 Los Angeles, California 90071-3106 10 213.680.6868 213.830.8768 FAX 11 nargues.motamed@bingham.com 12 FOR THE DEFENDANT CHEVRON U.S.A. INC.: 13 SAMUEL DAVIS, Attorney at Law KING &amp; SPALDING 14 1100 Louisiana Street, Suite 4000 Houston, Texas 77002-5213 15 713.276.7335 713.751.3290 FAX 16 sdavis@kslaw.com 17 FOR THE DEFENDANT LYONDELL: 18 BENJAMIN WANGER, Attorney at Law BLANK ROME, LLP 19 One Logan Square 130 North 18th Street 20 Philadelphia, Pennsylvania 19103-6998 21 215.569.5559 215.832.5559 FAX wanger@blankrome.com 22 23 24 25</p>	<p>1 INDEX 2 WITNESS: SHIRLEY McMURPHY AHMAD 3 EXAMINATION PAGE 4 By MR. EICKMEYER 7 5 By MS. MOTOMED 35 6 By MR. PATTON 39 7 8 EXHIBITS 9 NUMBER DESCRIPTION PAGE 10 1 Plaintiff City of Fresno's Second Amended 11 11 Notice of Deposition of Shirley McMurphy Ahmad With Videotaping 12 13 2 City of Fresno Environmental Health 17 14 Application Bates FCDEH-FRESNO-003657 15 3 Business Plan Registration Form 19 16 Bates RWQCB-FRESNO-001732 17 4 Department of Health Environmental Health 23 18 Application Bates FCDEH-FRESNO-003889 19 5 Certification of Financial Responsibility 24 20 for Underground Storage Tanks Containing 21 Petroleum Bates RWQCB-FRESNO-001520 to 22 001521 23 6 May 31, 1994, letter from Shirley 26 24 McMurphy to Fresno County Environmental 25 Health Bates RWQCB-FRESNO-001509</p>

1 (Pages 1 to 4)

Page 5	Page 7
<p>1</p> <p>2                   E X H I B I T S (Cont'd)</p> <p>3   NUMBER       DESCRIPTION                   PAGE</p> <p>4   7     Single Form of Agreement for Purchase       28</p> <p>5         and Sale of Commercial Property</p> <p>6         Bates RWQCB-FRESNO-001448 to 001449</p> <p>7   8     Note Modification Agreement Bates       39</p> <p>8         BD000878 to 000880</p> <p>9   9     Purchase Agreement and Escrow           41</p> <p>10        Instructions BB002759 to 002777</p> <p>11   10    May 8, 1991, letter from Randall K.       45</p> <p>12         Stephenson to Fresno County</p> <p>13         Environmental Health Department</p> <p>14         Bates RWQCB-FRESNO-001265 to 001313</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p>1   Lyondell.</p> <p>2     MS. TSAI: This is Cynthia Tsai with Gordon &amp; Rees</p> <p>3     on behalf of Kern Oil.</p> <p>4     MR. PATTON: This is Ben Patton with Bracewell &amp;</p> <p>5     Giuliani on behalf of the Valero defendants.</p> <p>6     MR. DAVIS: Samuel Davis with King &amp; Spalding on</p> <p>7     behalf of the Chevron defendants.</p> <p>8     THE VIDEOGRAPHER: Will the court reporter please</p> <p>9     swear in the witness.</p> <p>10           SHIRLEY MCMURPHY AHMAD,</p> <p>11           having been duly sworn, was</p> <p>12           examined and testified as follows:</p> <p>13           EXAMINATION BY:</p> <p>14     MR. EICKMEYER: Q. Good afternoon, Ms. Ahmad. My</p> <p>15     name is Evan Eickmeyer, as I introduced myself.</p> <p>16     I will start out the questioning this afternoon and</p> <p>17     ask most of the questions, and then the people on the phone</p> <p>18     and here in the room will have a chance to ask questions as</p> <p>19     well.</p> <p>20     I think we covered a lot of questions with your</p> <p>21     husband already. You'll be happy to hear it will make</p> <p>22     things faster for you.</p> <p>23     If you ever can't hear me or I'm not speaking</p> <p>24     clearly or loudly, please let me know, and I'll try and do</p> <p>25     better.</p>
Page 6	Page 8
<p>1     THE VIDEOGRAPHER: Good afternoon.</p> <p>2     This begins videotape number 1, Volume I, in the</p> <p>3     deposition of Shirley McMurphy Ahmad in the matter of the</p> <p>4     City of Fresno versus Chevron USA, et al. in the United</p> <p>5     States District Court for the Southern District of New York.</p> <p>6     The master file number of which is 100-1898.</p> <p>7     Today's date is February 16th, 2011, and the time</p> <p>8     on the video monitor is 3:30 p.m.</p> <p>9     The deposition is being taken at the Courtyard</p> <p>10    Marriott in Fremont, California, and was made at the request</p> <p>11    of the plaintiff.</p> <p>12    The court reporter producing the official</p> <p>13    transcript of today's testimony is Denise Wheeler of</p> <p>14    Depobook Reporting Services, 1600 G Street, Suite 101,</p> <p>15    Modesto, California, 95354. The videographer is Cutler</p> <p>16    Andrus of Legal Advantage Video, 25 Stillman Street, Suite</p> <p>17    106, San Francisco, California 94107.</p> <p>18    Will counsel please identify yourselves and state</p> <p>19    whom you represent?</p> <p>20    MR. EICKMEYER: Good afternoon. Evan Eickmeyer of</p> <p>21    Miller Axline &amp; Sawyer for plaintiff City of Fresno.</p> <p>22    MS. MOTAMED: Nargues Motamed of Bingham McCutchen</p> <p>23    on behalf of the Tesoro defendants.</p> <p>24    MR. EICKMEYER: On the phone?</p> <p>25    MR. WANGER: This is Ben Wanger from Blank Rome for</p>	<p>1     Have you ever had your deposition taken before?</p> <p>2     A. Yes.</p> <p>3     Q. Has it been in regard to any gasoline stations?</p> <p>4     A. It had to do with the partners --</p> <p>5     Q. And that was --</p> <p>6     A. -- in this group.</p> <p>7     Q. I'm sorry, were you done?</p> <p>8     A. In this group of partners we had on the gas</p> <p>9     station.</p> <p>10    Q. It had to do with the Petro Group?</p> <p>11    A. Yes.</p> <p>12    Q. Did any of the topics of your deposition have</p> <p>13    anything to do with any environmental contamination or</p> <p>14    cleanup?</p> <p>15    A. No.</p> <p>16    Q. I'm going to go over for a minute some of the</p> <p>17    ground rules of the deposition process just to make sure</p> <p>18    they're fresh in your mind and make sure you don't have any</p> <p>19    questions for us.</p> <p>20    The oath that the reporter gave you is the same</p> <p>21    oath to tell the truth as if we were in court today in front</p> <p>22    of a judge, and you have the same obligation to be truthful</p> <p>23    as if we were in court here today. Do you understand that?</p> <p>24    A. Yes.</p> <p>25    Q. Because the transcript is being typed up, it's</p>



Page 13	Page 15
<p>1 wrong, please let us know. But I think what your husband</p> <p>2 described there were two partnerships called Petro Group I</p> <p>3 and Petro Group II?</p> <p>4 A. That's correct.</p> <p>5 Q. Is it correct that -- let's see if I have my notes</p> <p>6 correct. I think it was Petro Group II acquired the station</p> <p>7 on Elm?</p> <p>8 A. Yes.</p> <p>9 Q. During the time that the Petro Group operated the</p> <p>10 station on Elm, do you know where the gasoline was supplied</p> <p>11 from?</p> <p>12 A. We -- we bought the location from Beacon, and we</p> <p>13 would buy the gas from Beacon. And then I guess they became</p> <p>14 Ultramar or something. And then -- so that's where we would</p> <p>15 get the gas I think.</p> <p>16 Q. Did you have an understanding as to who the refiner</p> <p>17 of the gasoline was during the time you mentioned first that</p> <p>18 it was branded Beacon or Ultramar?</p> <p>19 MR. PATTON: This is Ben Patton. I'd like to</p> <p>20 object to the extent that calls for speculation.</p> <p>21 MR. DAVIS: This is Samuel Davis. I'll object that</p> <p>22 it's been asked and answered.</p> <p>23 THE COURT REPORTER: I'm sorry, you'll object that</p> <p>24 it's what?</p> <p>25 MR. EICKMEYER: He said asked and answered.</p>	<p>1 Q. Was it your understanding that the station was</p> <p>2 purchased from Beacon?</p> <p>3 A. That's right.</p> <p>4 Q. And then I think you said -- I'm sorry -- I'm</p> <p>5 trying to remember between your testimony and your</p> <p>6 husband's -- that there was a change in the brand after a</p> <p>7 few years?</p> <p>8 A. I think Beacon was taken over, or Ultramar bought</p> <p>9 Beacon. It became Ultramar later.</p> <p>10 Q. So the station changed at some point from the</p> <p>11 Beacon brand to the Ultramar brand?</p> <p>12 A. I think that's what happened.</p> <p>13 Q. This is the one on Elm Street -- or, I'm sorry,</p> <p>14 2139 South Elm?</p> <p>15 A. If it happened to one, it would have happened to</p> <p>16 all of them. So I think they all changed. You know, I</p> <p>17 mean, I think Beacon -- didn't Ultramar buy out Beacon.</p> <p>18 That's what I'm -- that's what I -- I mean, I just am trying</p> <p>19 to remember, and I'm thinking that that's what happened.</p> <p>20 Q. Well, let me back up a little bit because we're</p> <p>21 just trying to find out what your knowledge is. So when you</p> <p>22 first bought the station at 2139 South Elm --</p> <p>23 A. I know we bought them from Beacon.</p> <p>24 Q. Okay.</p> <p>25 A. Because all the Beacon people were there, and they</p>
Page 14	Page 16
<p>1 Q. Go ahead.</p> <p>2 A. I really don't know who the refinery was.</p> <p>3 Q. Do you recall ever seeing tanker trucks delivering</p> <p>4 gasoline to the station?</p> <p>5 A. Oh, I'm sure they -- they came. See, I lived in</p> <p>6 Fremont, and so I very seldom was at Fresno. And I paid all</p> <p>7 the bills. I did all the bookkeeping. Every day they would</p> <p>8 have, you know, the sales report. Then I would put it in</p> <p>9 the computer. So I had the five gas stations to take care</p> <p>10 of. Then we had our own business and our personal, and then</p> <p>11 I had a little one at the time, and so I was pretty busy</p> <p>12 just taking care of that part. So I really wasn't in Fresno</p> <p>13 that often. And because of that particular location wasn't</p> <p>14 the best area, I just didn't go there that often.</p> <p>15 So I don't know if I remember seeing a tanker truck</p> <p>16 at that location. I know I did at other locations. We were</p> <p>17 at other locations more often than that one.</p> <p>18 Q. When you mentioned -- I think you described</p> <p>19 handling the paperwork for the station, did you ever see any</p> <p>20 paperwork indicating what company or companies were</p> <p>21 delivering gasoline to that station?</p> <p>22 A. I really don't remember.</p> <p>23 Q. You mentioned the station was initially branded</p> <p>24 Beacon I think you said?</p> <p>25 A. That's correct.</p>	<p>1 were, you know, going through the whole thing and</p> <p>2 inventories and all that. So I know we bought them from</p> <p>3 Beacon.</p> <p>4 Q. Do you remember who you dealt with at Beacon as</p> <p>5 part of that purchase process?</p> <p>6 A. I don't. I didn't really deal with them. My</p> <p>7 husband did.</p> <p>8 Q. Is it your understanding that the gasoline then was</p> <p>9 initially supplied by Beacon, and then their name switched</p> <p>10 to Ultramar at some point.</p> <p>11 A. That's what I'm thinking, yes.</p> <p>12 Q. At some point did the brand of the station change</p> <p>13 to Valley Gasoline?</p> <p>14 A. Yes, that happened later.</p> <p>15 Q. Do you have a knowledge as to who supplied gasoline</p> <p>16 during the time the station was called Valley Gasoline?</p> <p>17 A. I'm not sure. My husband would know. I don't</p> <p>18 know.</p> <p>19 Q. Your husband mentioned some companies call Total</p> <p>20 Energy and Sabek Oil?</p> <p>21 A. Okay. Yes.</p> <p>22 Q. Those are familiar?</p> <p>23 A. Yes.</p> <p>24 Q. Do you recall any other companies besides those two</p> <p>25 that might have supplied gasoline to the station when it was</p>

<p style="text-align: right;">Page 25</p> <p>1 A. Yes.</p> <p>2 Q. Can you tell from the writing if you were the</p> <p>3 person that completed this form?</p> <p>4 A. No, I did not.</p> <p>5 Q. As far as the information that's listed here, is</p> <p>6 this information correct, to your knowledge, as of the date</p> <p>7 shown here 12/31/93?</p> <p>8 A. Yes.</p> <p>9 Q. If you could turn to the second page Bates ending</p> <p>10 in 1521, is that your signature at the bottom of the page?</p> <p>11 A. Yes.</p> <p>12 Q. And if you could take a look at this page -- and if</p> <p>13 I didn't mention already, if there's any document you need a</p> <p>14 moment to read, we'll be happy to take the time to do that.</p> <p>15 I don't have too many documents to show you here.</p> <p>16 If you could take a look at this page, and my</p> <p>17 question is whether the information shown here was accurate</p> <p>18 to the best of your knowledge as of the date indicated</p> <p>19 12/31/93? So my question was just if the information shown</p> <p>20 here on this page was accurate to the best of your knowledge</p> <p>21 on the date indicated 12/31/93?</p> <p>22 A. Yes.</p> <p>23 Q. On the top line of this page it says, "I am the</p> <p>24 chief financial officer for Petro Group II." Do you see</p> <p>25 that?</p>	<p style="text-align: right;">Page 27</p> <p>1 MR. EICKMEYER: Q. I'm handing you what I've</p> <p>2 marked as Exhibit 6. This was not used for your husband's</p> <p>3 deposition. This is -- has your name at the top Shirley</p> <p>4 McMurphy, EA, dated May 31, 1994, Bates RWQCB hyphen Fresno</p> <p>5 hyphen 001509. Do you recognize your signature at the</p> <p>6 bottom of this page?</p> <p>7 I'm sorry, I didn't hear you if you answered. I</p> <p>8 asked you do you recognize your signature at the bottom of</p> <p>9 this page.</p> <p>10 A. Yes. Yes.</p> <p>11 Q. And does this letter appear to be in your writing?</p> <p>12 A. Yes.</p> <p>13 Q. And would this indicate changing stations from</p> <p>14 Beacon Service Stations to Valley Gas, indicate that the</p> <p>15 change of names would have happened at approximately the</p> <p>16 date of this letter, May 31st, 1994?</p> <p>17 A. Yes.</p> <p>18 Q. So from the -- I see the designation at the -- at</p> <p>19 the top of this page shows EA, that you're enrolled to</p> <p>20 represent taxpayers before the IRS?</p> <p>21 A. That's correct.</p> <p>22 Q. So is that also -- I think your husband described</p> <p>23 you as a CPA. So you were also in the accounting business</p> <p>24 before the gas stations were acquired?</p> <p>25 A. That's right.</p>
<p style="text-align: right;">Page 26</p> <p>1 A. Yes.</p> <p>2 Q. Was that an official title that you had, or is that</p> <p>3 just indicating that you were responsible for taking care of</p> <p>4 the financial business?</p> <p>5 A. I think just that we were responsible for taking</p> <p>6 care of the financial.</p> <p>7 Q. Within the partnership of Petro Group II, did</p> <p>8 anyone have any particular titles or designations as to what</p> <p>9 they were responsible for?</p> <p>10 A. No.</p> <p>11 Q. Were the partners in Petro Group II equal partners?</p> <p>12 A. No.</p> <p>13 Q. Can you describe?</p> <p>14 A. It was depending on how much they had invested.</p> <p>15 Q. Who was considered, if anyone, then to be the lead</p> <p>16 partner, have the biggest share?</p> <p>17 A. It would have been myself.</p> <p>18 Q. I think you mentioned when you were talking about</p> <p>19 the stations and having a child at home, you said you and</p> <p>20 your husband I think also had another business. Was that</p> <p>21 right?</p> <p>22 A. Accounting business. Bookkeeping, accounting</p> <p>23 business.</p> <p>24 (Exhibit No. 6 was marked for</p> <p>25 identification.)</p>	<p style="text-align: right;">Page 28</p> <p>1 Q. Let me ask you -- if you want, we can look back at</p> <p>2 Exhibit 1. Your husband had mentioned doing accounting work</p> <p>3 for different gas stations. And I was just going to ask</p> <p>4 looking at that list of stations in No. 1, did you ever do</p> <p>5 any accounting work for any stations in Fresno shown</p> <p>6 there --</p> <p>7 A. No.</p> <p>8 Q. -- besides your own station?</p> <p>9 A. No.</p> <p>10 (Exhibit No. 7 was marked for</p> <p>11 identification.)</p> <p>12 MR. EICKMEYER: Q. I'm going to hand you what</p> <p>13 I've marked as Exhibit 7. I believe this was Exhibit 9 to</p> <p>14 your husband's deposition. This is titled Single Form of</p> <p>15 Agreement for Purchase and Sale of Commercial Property,</p> <p>16 Bates RWQCB hyphen Fresno hyphen 001448 through 1449. Do</p> <p>17 you recognize -- at the bottom of the second page do you</p> <p>18 recognize your signature there?</p> <p>19 A. Yes.</p> <p>20 Q. Do you know whose handwriting this document is in?</p> <p>21 A. This is my husband's.</p> <p>22 Q. Can you tell us what's indicated by this document,</p> <p>23 what the purpose was?</p> <p>24 A. He was selling the station to these other people.</p> <p>25 Q. Was it the Petro Group II was selling their</p>

<p style="text-align: right;">Page 45</p> <p>1 THE WITNESS: Is it in here?</p> <p>2 MR. EICKMEYER: She'll give you a new one. We're</p> <p>3 using different numbers than your husband's exhibits.</p> <p>4 21, I've got it, thanks.</p> <p>5 MS. MOTAMED: And I'm marking this as Exhibit 10.</p> <p>6 (Exhibit No. 10 was marked for</p> <p>7 identification.)</p> <p>8 (Pause in proceedings.)</p> <p>9 MR. PATTON: Q. I'm sorry, do you have the</p> <p>10 document, Ms. Ahmad?</p> <p>11 A. Oh, yes.</p> <p>12 Q. Do you recognize this as one of the reports that</p> <p>13 was referred to in Section 4.2 that we were just looking at?</p> <p>14 A. Well, now I'm reading on this page here. This says</p> <p>15 600 East Elm Avenue in Fresno. And we had a 600 in</p> <p>16 Coalinga -- South Elm in Coalinga. That was the address of</p> <p>17 Coalinga.</p> <p>18 Q. I'm sorry, are we looking at different documents?</p> <p>19 Are you looking at a document with Ultramar at the heading?</p> <p>20 I may have got the wrong exhibit number, and that's my</p> <p>21 fault.</p> <p>22 MR. EICKMEYER: I think, counsel, she's pointing</p> <p>23 out on Bates 1267 the address in the top paragraph is 600</p> <p>24 East Elm Avenue, Fresno. That's what she was pointing to</p> <p>25 here in the room.</p>	<p style="text-align: right;">Page 47</p> <p>1 We are now going off the record. The number of videotapes</p> <p>2 used is two. The time is 4:35.</p> <p>3 (Deposition concluded at 4:35 p.m.)</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>
<p style="text-align: right;">Page 46</p> <p>1 MR. PATTON: Okay. Thank you for clarifying that.</p> <p>2 That does seem to be the wrong address.</p> <p>3 Q. But on the front it has the correct address; is</p> <p>4 that right; on the first page?</p> <p>5 A. Right.</p> <p>6 Q. Was it your understanding after these reports were</p> <p>7 done that they came back with the conclusion that there was</p> <p>8 no contamination at the 2139 Elm station?</p> <p>9 MR. EICKMEYER: Object. Misstates the evidence.</p> <p>10 THE WITNESS: As far as I know everything would</p> <p>11 have been just right -- would have been okay.</p> <p>12 MR. PATTON: Q. Okay. Thank you very much,</p> <p>13 Ms. Ahmad.</p> <p>14 I have no further questions.</p> <p>15 MR. EICKMEYER: Anyone else on the phone?</p> <p>16 UNKNOWN SPEAKER: No questions here.</p> <p>17 THE COURT REPORTER: Who was that?</p> <p>18 MR. WANGER: Mr. Wanger.</p> <p>19 MR. EICKMEYER: Anyone else still with us? Last</p> <p>20 chance.</p> <p>21 Anything else?</p> <p>22 MS. MOTAMED: No.</p> <p>23 MR. EICKMEYER: All right. Thank you, Ms. Ahmad.</p> <p>24 We conclude.</p> <p>25 THE VIDEOGRAPHER: This concludes the deposition.</p>	<p style="text-align: right;">Page 48</p> <p>1</p> <p>2 REPORTER'S CERTIFICATION</p> <p>3</p> <p>4 I, DENISE WHEELER, CSR No. 8254, Certified Shorthand</p> <p>5 Reporter, certify:</p> <p>6 That the foregoing proceedings were taken before me at</p> <p>7 the time and place therein set forth, at which time the</p> <p>8 witness was put under oath by me;</p> <p>9 That the testimony of the witness, the questions</p> <p>10 propounded, and all objections and statements made at the</p> <p>11 time of the examination were recorded stenographically by me</p> <p>12 and were thereafter transcribed;</p> <p>13 That the foregoing is a true and correct transcript of</p> <p>14 my shorthand notes so taken.</p> <p>15 I further certify that I am not a relative or employee</p> <p>16 of any attorney of the parties, nor financially interested</p> <p>17 in the action. I declare under penalty of perjury under</p> <p>18 the laws of the California that the foregoing is true and</p> <p>19 correct.</p> <p>20 Dated this 28th day of February, 2011.</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p style="text-align: center;">_____ DENISE WHEELER, C.S.R. No. 8254</p>

# **EXHIBIT 11**



Nov 21 2011  
2:29PM

UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF NEW YORK

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This Document Applies to:

*City of Fresno (Plaintiff)*

Case No. 04 CV-04973 (SAS)

v.

*Chevron U.S.A. Inc., et al (Defendants)*  
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**AMENDED EXPERT REPORT OF JOHN B. O'BRIEN**

Date: November 21, 2011

that implemented compromises reached as a result of the negotiations.<sup>65</sup>

64. To clarify the terminology associated with the 1990 CAAA gasoline regulations, and as used in this Report, gasoline made to meet the requirements of the OFP is referred to as “oxygenated” gasoline, while gasoline made to meet the requirements of the RFG program is referred to as “reformulated” gasoline, or simply RFG. Both of these grades of gasoline were required to contain minimum levels of oxygen through the addition of oxygenates, as described above.<sup>66</sup> Gasoline sold in areas not covered by either the OFP or RFG programs was not required to contain oxygenates and is referred to as “conventional” gasoline. However, conventional gasoline may, and often does, contain oxygenates depending on logistics, octane requirements, and processing economics. Also, so-called “anti-dumping” regulations preclude refiners from simply blending (“dumping”) all of their most highly polluting components into conventional gasoline. Following the January 1995 introduction of RFG, there was a period of regulatory overlap between the OFP and RFG programs when RFG was required to contain 2.7 Wt.% oxygen (instead of 2 Wt.%) during the winter months in OFP areas. This was done to avoid having two conflicting fuel regulations in areas covered by both OFP and RFG.

#### **CARB Reformulated Gasoline Regulations**

65. CARB was formed by the California legislature in 1968 to find solutions to California’s air pollution problems. Since its establishment, CARB has often been in the forefront of the development of automobile emission controls. In 1971, CARB adopted the nation’s first automobile emissions standards for oxides of nitrogen. In 1975, exhaust catalytic

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<sup>65</sup> Michael Weisskopf, “Rare Pact Reached to Fight Smog; Environmentalists, Oil Firms Agree on Gasoline Standards,” *The Washington Post*, August 16, 1991, p. 1.

<sup>66</sup> The requirement that RFG contain a minimum oxygen content was lifted in May 2006, after Congress passed the RFS mandating that the domestic gasoline supply contain certain minimum volumes of blendstocks made from renewable sources.

converters were required on all new cars sold in California under CARB's Motor Vehicle Emission Control program. In 1988, CARB adopted regulations requiring all new cars sold in the state to have onboard computer-controlled emission monitoring systems.

66. However, CARB's most significant statewide gasoline regulations occurred when Phase I of the California Reformulated Gasoline (CaRFG1) program became effective on January 1, 1992. CaRFG1 totally eliminated the use of lead additives, mandated the use of deposit control additives, and in some areas of the state, extended the new federal RVP limits for longer time periods.

67. For federal OFP-designated areas, California obtained an EPA waiver to use gasoline containing between 1.8 and 2.2 Wt.% oxygen, instead of the standard federal level of 2.7 Wt.% for wintertime OFP gasolines.<sup>67</sup> Also, when the federal OFP program commenced in November 1992, CARB required the entire state to comply with the wintertime oxygenate program because approximately 80% of the state's gasolines were marketed in areas that were non-attainment for CO according to federal regulations.<sup>68</sup> This statewide wintertime oxygenate requirement started in November 1992 and terminated in February 1998. However, CARB required certain selected counties and areas of the state to continue their wintertime oxygenate use even though they were CO-compliant. For example, the counties of Fresno, Madera, and the Lake Tahoe Air Basin were required to continue wintertime oxygenate use through January 2000, even though they had achieved CO-compliance in June 1998.<sup>69</sup> The CARB wintertime oxygenate target of 2.0 Wt.% oxygen was equivalent to 11.0 Vol.% MTBE or 5.7 Vol.% ethanol.

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<sup>67</sup> The waiver was requested as part of California's State Implementation Plan (SIP). Data showed that oxygen levels above 2.2 Wt.% increased nitrogen oxide emissions and added to ozone and particulate matter pollution.

<sup>68</sup> James D. Boyd, CARB, Letter to Daniel W. McGovern, EPA, October 30, 1992, regarding revisions to California's SIP for compliance with the federal OFP program.

<sup>69</sup> See 63 FR 15305 and year 2000 version of Title 13, California Code of Regulations, Section 2262.5 (13 CCR 2262.5).

In his report in this matter, Plaintiff's expert Mr. Reynolds incorrectly states that CARB's wintertime oxygenate requirements only applied to Greater Los Angeles and Imperial County.<sup>70</sup> In fact, they applied throughout the state for several years.

68. CARB Phase II (CaRFG2) gasoline regulations were promulgated in October 1991 and became effective on March 1, 1996, 15 months after the federal RFG regulations were implemented. The CaRFG2 regulations were more stringent than those for federal Phase I RFG and substantially lowered the sulfur dioxide, nitrogen oxides, and VOC emissions compared to Phase I RFG. The emissions behavior of CaRFG2 gasoline was estimated based on CARB's own "predictive model" and measured the emissions compliance of each gasoline blend based on its RVP, aromatics, olefins, sulfur, benzene, oxygen, and distillation. CaRFG2 gasoline sulfur content was limited to 30 parts per million (ppm) using the averaging method of compliance versus an average level of 130 ppm for federal RFG. In order to meet the tougher emission requirements, the average level of aromatics and olefins in CaRFG2 gasoline also had to be lower than typical federal RFG.

69. Because CaRFG2 was more restrictive than federal RFG, it was allowed to supersede federal requirements. Most CaRFG2 gasoline was targeted to contain 2.0 Wt.% oxygen year-round, with an allowable compliance range of between 1.8 and 2.2 Wt.%.<sup>71</sup> Although CaRFG2 was required statewide, some areas of the state were subject to the requirements of the federal OFP and RFG programs as well. Exhibit H shows the counties in California that were subject to the federal OFP or RFG programs, or both, at any time during the

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<sup>70</sup> Reynolds Fresno Report, May 2, 2011, Section 4.2, p. 7.

<sup>71</sup> If gasoline suppliers complied with the CARB emissions requirements under the predictive model, they were permitted to produce gasoline without oxygenates if they so chose (except in RFG-designated areas.) The oxygenate requirement only applied to suppliers complying under the so-called "flat limits" of 1.8 to 2.2 Wt.%. See 13 CCR 2262. Although small amounts of non-oxygenated CaRFG2 were produced between 1996 to 2003, high refining costs precluded any significant volumes. CaRFG2 also allowed 10 Vol.% ethanol blends with a maximum of 3.7 Wt.% oxygen.



period from 1995 to 2003. In December 2001, the counties in the San Joaquin Valley Air Basin<sup>72</sup> were designated by the federal government as ozone non-attainment areas and, effective December 2002, these counties were required to meet federal RFG requirements.<sup>73</sup>

70. CaRFG2 specifications proved very difficult for refiners to meet and required numerous modifications to refinery facilities. Difficulties in obtaining the necessary construction permits in the highly regulated California environment added time and cost to the necessary refinery modification projects. CARB-compliant gasoline became the most expensive in the nation and its availability from sources outside the state was very limited.

71. CARB Phase III (CaRFG3) gasoline regulations became effective December 31, 2003, the same time that the state's MTBE phaseout was complete. Because CaRFG3 gasoline used in federal RFG areas was still required to contain 2.0 Wt.% oxygen, completion of the MTBE phaseout was effectively a mandate for the use of 5.7 Vol.% ethanol (the only CARB-approved source of oxygen) in those gasolines.<sup>74</sup> CaRFG3 also lowered the levels of sulfur and benzene permitted in gasoline and slightly adjusted distillation temperature limits.

72. Despite recent federal mandates to increase the blending of ethanol into all domestic gasoline supplies, the 5.7 Vol.% ethanol level was retained in all California gasolines until January 1, 2010, when the state's Low Carbon Fuel Standard (LCFS) was passed into law.<sup>75</sup> Although the LCFS did not specifically mandate an increase in ethanol blending, increasing the ethanol content from 5.7 to 10 Vol.% became, along with other adjustments in fuel quality, an

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<sup>72</sup> The San Joaquin Valley Air Basin comprises the counties of San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulane, and western Kern County.

<sup>73</sup> See 66 FR 56476-484.

<sup>74</sup> See 13 CCR 2262.6.

<sup>75</sup> California's LCFS is aimed at reducing greenhouse gases from all of the state's energy sources.

integral part of California refiners' strategy to comply with the new law.

### **The Federal Renewable Fuel Standard ("RFS")**

73. In August 2005, the federal government passed the Energy Policy Act of 2005, which included the first RFS. Commencing in May 2006, the first RFS required certain minimum volumes of ethanol to be used annually in the nation's fuel supply, at the same time eliminating any requirement for oxygenates in RFG. The intended purpose of the first RFS was to reduce dependence on foreign oil through increased use of domestic renewable fuels, reduce greenhouse gas emissions, and support new domestic economic activity in renewable fuels production. In December 2007, the federal government passed the Energy Independence and Security Act of 2007 (EISA), which substantially expanded the RFS requirements for the nationwide blending of fuels from renewable sources.<sup>76</sup> As of the time of this Report, minimum oxygen requirements remain only in certain OFP regulated areas.<sup>77</sup> However, all such oxygen is currently provided through ethanol blending.

## **V. GASOLINE SUPPLY CHAIN OVERVIEW**

74. The gasoline "supply chain" is the entire set of interdependent activities that are carried out to bring gasoline to the end user. The supply chain is very complex, highly regulated, intensely competitive, and involves a large number of business relationships. The business relationships exist throughout the entire supply chain—from the refiner, blender, or importer to the retail service station operator. Exhibit I is a diagram showing the complexity of the

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<sup>76</sup> EISA increased the annual volume of renewable fuels (including ethanol) required in the U.S. motor fuel supply to 36 billion gallons by the year 2022, or approximately 2,350,000 barrels per day (B/D). Of that total, only a maximum of 15 billion gallons per year (BGY), or approximately 978,500 B/D of corn-based ethanol can be used to meet RFS requirements.

<sup>77</sup> See 13 CCR 2262.5(a). The remaining OFP areas are the South Coast Area (Los Angeles and Orange Counties, as well as parts of Riverside and San Bernardino Counties) and Imperial County.

out” of the gasoline pool in California is to export them or burn them as refinery fuel—providing a low economic value. The net result is a loss in total gasoline volume.

193. Third, and finally, the energy content of ethanol is less than that of either hydrocarbon gasoline or MTBE. It is approximately one-third less than hydrocarbon gasoline and about 20% less than MTBE. Since a fuel’s volumetric energy content is directly related to the mileage that can be achieved in an internal combustion engine, substitution of hydrocarbon gasoline or MTBE with ethanol requires that more fuel volume be burned for the same miles driven. The net effect is the same as for the removal of light ends from gasoline—the incremental gasoline volume must be made up by refiners processing more crude oil or through gasoline imports.

194. If refiners must process more crude oil to produce the same volume of gasoline, the cost of producing gasoline increases. Increased imports of gasoline not only increase the cost of the gasoline supplies, but also raise important issues regarding long-term security of supply. Although the impact of ethanol on gasoline supply may vary, both on a refiner to refiner and on a temporal basis, it would have been clear to most refiners considering alternative oxygenate materials in the early 1990s that ethanol would negatively impact their overall gasoline production and make them less competitive from a pricing standpoint.

#### **Summary of MTBE versus Ethanol Considerations**

195. Each gasoline refiner was faced with the decision of how and where to source the large volumes of oxygenates that were projected to be required in RFG and OFP designated areas. As has been explained in this Report, there were many factors to be considered in making this decision. Although there were a number of different types of ethers and alcohols that could be used, the fundamental choice was between MTBE and ethanol. For many of the reasons

discussed above, most refiners generally opted for MTBE. The following paragraphs summarize the key issues that directed that decision.

196. **Ethanol Availability** – Most ethanol plants were small, inefficient, highly leveraged, and concentrated in the Midwest corn producing states, far removed from the areas of largest future RFG/OFP demand. There were few ethanol plants being planned or under construction because the economics did not justify it. Ethanol imports were limited by a tariff and by the “cap” on CBI nation volumes. In contrast, capacity for MTBE was growing rapidly, both at refineries and through merchant plant construction. The latter relied on low-cost butanes, the very materials that were rapidly being displaced from the gasoline pool due to restrictive RVP regulations.

197. **Ethanol Distribution and Blending** – Ethanol’s water miscibility precluded it from being blended at the refinery and transported by pipeline. Reliance on ethanol as the source of oxygenate in major East Coast and West Coast RFG markets would have resulted in substantial rail transportation costs, as well as major new investments in segregated rail off-loading facilities, terminal storage tanks, and truck rack loading and blending systems. Ethanol’s high blending RVP required refiners to produce a special low RVP RBOB (or CARBOB in California), complicating the refining process, adding additional expense, and reducing gasoline volume. The latter could only be made up by processing more crude oil or importing high-cost gasoline from foreign sources. When the EPA denied requests to provide ethanol-blended RFG gasoline with an RVP “waiver” (which it gave for conventional gasoline), any plans for new ethanol capacity essentially came to an end.<sup>171</sup> In denying the waiver, the EPA was concerned that the expanded use of ethanol in RFG gasolines would increase emissions in those areas that

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<sup>171</sup> “Ethanol Producers Battle EPA Proposal on Clean Air,” *The Wall Street Journal*, May 1, 1992, p. 84.

already had the “dirtiest” air. When asked about this fact at trial in the City of New York Case, Mr. Reynolds confirmed, “*I believe that’s why they [the EPA] said they would not grant it [the waiver] for all their RFG areas, yes.*”<sup>172</sup> In comparison, both inside and outside of the refinery, MTBE behaved like any other refinery gasoline blendstock and did not suffer from any excessive RVP, blending, transportation, or distribution problems.

**198. Ethanol Economics** – Even with the help of generous federal subsidies, the cost of producing ethanol in the early 1990s made it only marginally competitive with other oxygenate sources, such as MTBE. Additional state subsidies or incentives were needed to encourage expanded production. Ethanol’s fundamental economics, with a high dependency on corn prices, raised uncertainty about the long-term viability of the ethanol industry. In 1994, the U.S. General Accountability Office (GAO), the audit arm of the U.S. Congress, reported that despite a federal law requiring large federal agencies to use renewable fuels, the agencies had substantially failed to comply.<sup>173</sup> The high price of ethanol was cited as a key reason. MTBE, in contrast, was not only much cheaper to produce, but also offered economic synergies with other refinery processes such as alkylation. Also, MTBE production costs were directly related to other energy costs, not based on the price of a totally unrelated farm crop and agricultural by-products the way ethanol was.

**199. Supply Reliability and Quality Control** – If a refiner chose ethanol as its oxygenate source, it often had to enter into a contract with a relatively small supplier with an unknown “track record.” A refiner did not want to be dependent on oxygenate sourced from potentially unreliable suppliers operating in an economically challenged, subsidized industry.

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<sup>172</sup> Reynolds Trial Testimony, City of New York Case, p. 4715, lines 12-13.

<sup>173</sup> *Advanced Technology Program - Federal Agencies’ use of Gasohol Limited by High Prices and Other Factors*, U.S. GAO, Report to the Honorable Byron L. Dorgan, U.S. Senate, December 1994.

The refiner was essentially taking on the risk of default in supply, the cost of which could be substantial. However, refiners themselves had no interest in owning or operating ethanol plants, which represented an entirely different line of business. The choice of ethanol also introduced issues of product quality control. RFG regulations required that gasoline meet all specifications at the point of retail delivery to the consumer. By choosing ethanol as the oxygenate source, refiners were, in effect, transferring part of the gasoline manufacturing process—the need to blend the correct volume of ethanol just prior to delivery—to entities over which they had little or no control. Unlike ethanol, MTBE could be reliably manufactured and blended at the refinery and the final blend certified at the time of production, in accordance with strict quality control procedures. Absent some unusual pipeline or terminal operating problem, the refiner knew that the product delivered to the retail station met the RFG regulations. The use of MTBE offered more product quality assurance and less risk of violation of those regulations.

200. **Consumer Acceptance** – Because ethanol had been linked to various fuel quality and vehicle performance issues when initially used, a perception had arisen that ethanol-blended fuels were inferior and to be avoided. MTBE bore no such consumer acceptance problems. Indeed, by 1990, MTBE had been proven to be an economic, easily used, high-octane, and reliable gasoline blendstock that could be blended, transported, and delivered like any other gasoline blendstock.

## **VII. COMPARISON OF ETHANOL CIRCUMSTANCES TODAY VS. THE 1990s**

201. It has often been asserted that the fact that ethanol is in such widespread use in the U.S. today is ample proof that all U.S. refiners and marketers could have, if they had chosen to, met the oxygenate requirements of the 1990 CAAA using ethanol alone. I do not agree with this

assertion. The technical and commercial circumstances 15-20 years ago were very much different than they were in the early to mid-2000s when U.S. refiners started to transition from MTBE to ethanol. Of course, no one can know for certain what could have been accomplished 15-20 years ago. However, given that ethanol producers and refiners would at that time have had, at best, only three to four years to build a large number of new ethanol plants, as well as substantially modify both refineries and distribution systems to accommodate ethanol on a nationwide basis, I find it unreasonable to assume that such a rapid expansion of the ethanol industry could have been achieved. Ethanol blending confronted gasoline suppliers with a multiplicity of risks, uncertainties, and added costs in the early 1990s. To assume that suppliers would have simply ignored such factors is, in my opinion, unrealistic.

202. Instead, I am of the opinion that individual refiners did exactly what can be anticipated from any competitive business enterprise. They kept their options open until they knew what the actual regulations would be and then made the most prudent investments and/or operational changes needed to ensure that they remained competitive in their markets. Since MTBE held so many technical and economic advantages over ethanol, and entailed much lower supply risk, it is not surprising that it became the oxygenate of choice outside the Midwest ethanol production areas. It is unreasonable to assume that refiners would have made large investments to expand RBOB production, or potential ethanol suppliers would have invested in large new production facilities, when neither knew the role that ethanol would eventually play in meeting the 1990 CAAA. Gasoline marketing is highly competitive. Each refiner was faced with an individual decision as to which federally approved oxygenate to use. As discussed in more detail in this section, an individual refiner facing such a choice would also be aware that its competitors were facing a similar choice. It would be reasonable for a refiner to assume that its

### **Conclusion**

229. In my opinion, it is totally improper to consider what has been achieved in the ethanol and the refining industries over the last 15-20 years and conclude that the same could have been achieved during the implementation of the 1990 CAAA. Conditions were simply too different across many dimensions. The dynamics of the entire industry were vastly different during the two periods, and there was simply too much uncertainty in the earlier periods to encourage the level of change and investment needed. When individual refiners considered their choice between ethanol and MTBE, it was typically made on the basis of competition, overall economics, and security of oxygenate supply. Since MTBE was generally favored in all categories, it is not surprising that most refiners chose it over ethanol. MTBE phaseouts and ethanol mandates were key drivers in the transition from MTBE to ethanol in the mid-2000s. No such issues were foreseen in the earlier time frames.

### **VIII. DIMINISHING PUBLIC AND POLITICAL SUPPORT FOR ETHANOL**

230. Over the last few years, both public and political support for the expanded use of corn to produce additional fuel ethanol has waned considerably. This has come about as a greater proportion of the population has come to understand the additional costs and unintended consequences of the large-scale use of ethanol in motor fuel. Even former Vice President Al Gore, who was once one of the most ardent advocates of fuel ethanol, has come out against expanded corn ethanol production. He now admits that the benefits of ethanol are “*trivial*.”<sup>210</sup> Asked to explain his previous support for ethanol, the former Vice President said, “*One of the reasons I made that mistake [i.e., supporting corn ethanol] is that I paid particular attention to*

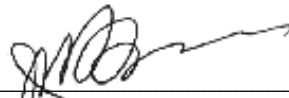
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<sup>210</sup>“Al Gore’s Ethanol Epiphany,” *The Wall Street Journal*, November 27, 2010.



December 31, 2011. Elimination of the VEETC would not reduce the quantity of ethanol blended into gasoline since this is mandated by law. However, discontinuance of the VEETC has the potential to significantly alter the economics of ethanol producers.

I reserve the right to amend these opinions if subsequent information becomes available which would materially alter my findings.

A handwritten signature in black ink, appearing to read 'J. B. O'Brien', is written over a horizontal line.

JOHN B. O'BRIEN

Date: November 21, 2011

# **EXHIBIT 12**



Nov 18 2011  
3:26PM

**City of Fresno v Chevron U.S.A. Inc., et al.**  
Report of Christine T. Wood, Ph.D.

A handwritten signature in black ink that reads "Christine T. Wood".

Christine T. Wood, Ph.D.

Exponent Failure Analysis Associates, Inc.  
149 Commonwealth Drive  
Menlo Park, CA 94025

November 18, 2011

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stations.<sup>55</sup> It is this existence of laws and regulations, and the enforcement thereof, that increases compliance with warnings that are disseminated about the safe handling of gasoline.

## **Summary and Conclusions**

In summary, I offer the following opinions with a reasonable degree of scientific certainty:

The safety messages contained in warnings and other information about gasoline releases provided by defendants available to their customers are reasonable, adequate and sufficient to communicate the proper precautions for storing and handling gasoline, whether it contains MTBE or not.

The inclusion of additional or alternative information, such as that proposed by plaintiff, would not change the safety practices among service station operators.

The inclusion of additional warnings would dilute the message of a simple warning not to permit spills or leaks of gasoline, reducing its effectiveness.

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<sup>55</sup> Deposition of Gary Beacom, 08/10/2011, pp. 22, 24, 72; Deposition of Garabed Bedirian, 04/04/2011, pp. 41-42; Deposition of David Benjamin, 08/09/2011, p. 33; Deposition of David D'Alessandro, 04/01/2011, pp. 66-67; Deposition of Jatinder Paul Dhillon, 08/11/2011, pp. 26-27, 59, 62-64; Deposition of Babak Lakestani, 08/09/2011, p. 36; Deposition of Bryan Leonard Moe, 08/17/2011, p. 43; Deposition of Joe Rebella, 03/15/2011, p. 40 (fire department); Deposition of Judy Rogers, 03/08/2011, pp. 35-37; Deposition of Jeetander Sethi, 07/13/2011, pp. 26, 47-48, 90-91